THE MINING TOURNALL

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1527.-Vol. XXXIV.

LONDON, SATURDAY, NOVEMBER 26, 1864.

STAMPED.....SIXPENCE. UNSTAMPED., FIVEPENCE

MR. JAMES CROFTS, SHAREBROKER
No. 1, FINCH LANE, CORNHLL.
(Established 22 years.)

Mr. CROFTS transacts business, in the way of PURCHASE or SALE, in every description of stocks, but particularly in BRITISH MINES, in no case departing from the po

Mr. Geoffs transacts outsiness, in the way of Valvata of Salary in the pitting of stocks, but particularly in BRITISH MINES, in no case departing from the pitting of a broker, at net prices.

Holders of mining shares Diffficult of Sale in the OPEN MARKET made purchasers by negociation, through Mr. Chopts' agency. Also, parties requiring ADVICE how to act as to the DISPOSAL, or ARADONMENT, of doubtful mining about the production of the market in all casticals may producibly avail of Mr. Chopts' long experience on the market in all casticals may produced.

uity, to buy or sell RAILWAY and BANK shares promptly carried out

granh.
FOR SALE:—12 Crane, £4 17s. 6d.; 30 New Birch Tor and Vitifer, £2\%; 25 South
Borren, 33s.; 100 Wheal Hartley, 2s. 6d.; 200 Prince of Wales, 2s. 9d.; 10 Minera
Union, £16; 4 East Basset (paying 24 per cent. dividends), £2\%; all net, and calls paid, at LOWEST MARKET PRICES:—50 North Chiverton, 25 Frank Mills, 10 Great
LAMF, 50 East Wheal Vor, 20 Wheal Chiverton, 10 East Lovell.

MR. JAMES LANE, No. 44, THREADNEEDLE STREET,

JAMES LANE, No. 44, THREADNEEDLE STREET,

JAMES LANE has FOR SALE at nett prices:—5 Basset and Grylls, £9; 3 Buller, £14½;

50 Bedol-Aur, 10s.; 20 Boscawen, 10s.; 20 Bryntall, £3; 3 Basset, £60; 50 Crebor,

71s. 6d.; 50 Calstock Consols, 8s.; 20 Carn Camborne, 23s.; 10 Central Minera, 35s.;

50 Drake Walls, 17s. 6d.; 20 East Lovell, £15½; 20 East Resewarne, £3; 20 East Russell, £1½; 40 East Resewarne, £3; 20 East Russell, £1½; 40 East Seton, 3s.; 10 East Chiverton, 30s.; 50 Fuzze Hill wood, 3s. 9d.;

55 Great Wheal Busy, £2½; † Hallenbeagle; 25 Havan (£5 paid), 25s.; 20 Lady Bertha,

12s. 6d.; 20 North Treakerby, £2½; 5 North Basset, £6s.; 10 North Grambler, £2½;

60 North Devon; 50 New Wheal Martha, 27s. 6d.; 50 South Grenville, 9s.; 10 Wheal

ERITY (St. Agnes), £256; 50 Wheal Ludcott, 7s. 6d.

MR. WILLIAM LELEAN BUYS and SELLS all descriptions of ENGLISH and FOREIGN STOCKS and SHARES, INSPECTS MINES, and TRANSACTS all the usual BUSINESS of a STOCK and SHAREDEALER. Parties may rely upon him for sound advice and punctuality in all his engagements.

Mr. Lekan has FOR SALE: —16 Great Lakey, 5 Frovidence, 20 Bedford United, 3 Clifford Amalgamated, 5 East Caradon, 5 East Wheal Lovell, 1 South Caradon, 1 St. Irsc Consols, 5 Wheal Seton, 2 West Wheal Ston, 20 North Treskerby, 10 East Wheal Graville, 20 North Chiverton, 10 South Wheal Basset, 100 South Condurrow, 20 Pendesc Consols, 100 Prince of Wales, 2 Leawcod, 10 South Darren, 75 West Wheal Jane, 20 East Rosewarne, 10 North Crofty, 15 East Russell, 50 East Lakey, 50 Great South Chiverton, 75 Bedoi-Aur, 10 East Treskerby, 10 Trelyon Consols, 30 Rosewarne Consols, 60 North Great Work, 70 Wheal Emms, 25 Trimley Hall, 100 Vale of Towy, 100 Hawkmoor, 20 Crane, 100 Wheal Cartis, 15 East Cara Brea, 200 North Jane, 100 Great Caradon, 20 Sithney and Caramesia, 20 East Chiverton, 5 Darren, 25 East Providence, 23%; and 259 North Minera, 3s.

I refer my correspondents to my letter in this day's Journal, page 824.

Bankers: Messrs. Robarts, Lubbock, and Co.

Offices, 11, Royal Exchange, London, E.C.

I L L I A M W A R D, 29, THREADNEEDLE STREET, LONDON, E.C.

JOHN RISLEY, 32, LOMBARD STREET, LONDON, E.C. SHARES in MINES BOTGHT and SOLD on commission, at 1½ per cent., for mmediate cash. Bankers: London and Westminster, Lothbury.

ESSRS. WARD AND JACKMAN, SHAREBROKERS, 2, ADAM'S COURT, OLD BROAD STREET AND MINING EXCHANGE, LONDON, E.C. Bankers: London and Westminster, Lotbbury.

F O R S A L E, E A C H N E T T :—

20 Frank Mills. 20 Long Rake, 37s. 6d. 25 North Downs, 15s.

50 East Vor. 1 St. Ives, £20. 20 Grenville.

3 Buller, £12/4. 5 West Caradon, £6%. 6 East Agar, £2/4.

Applly to Mr. J. W. HUTCHINSON, 78, Old Broad-atreet, London (Member of the Mining Exchange).

MR. T. ROSEWARNE, 81, OLD

Bedford United, £2½.
Bedford United, £2½.
Baller, £12½.
Clifford Amil. £34¼.
Cook's Kitchen, £624.
East Caradon, £18%.
East Garn Brea, £624.
East Garn Brea, £634.
East Garn Laxer, £19.
East Garn Laxer, £19.
East Garn Brea, £634.
East Garn Laxer, £19.
East Jane, £1 5s.
East Lovel, £2%.
East Caradon, £19.
West Seton, £202½.
Wheal Grebor 3s.
West Seton, £202½.
Wheal Grebor 3s.
West Seton, £202½.
Wheal Rose, £35.

Boller, £124,
Clifford Amil. £344,
Clifford Amil. £434,
Clifford Amil. £434,
Clifford Amil. £434,
Clifford Amil. £434,
Clifford Amil. £444,
Clifford Amil. £

WILLIAM BARTLETT, MINING SHAREDEALER
No. 2, BUCKLEBBURY, LONDON, E.C.
(Member of the Mining Exchange.)

SPECIAL BUSINESS in-Great Laxey. Wheal Seton. Providence. East Caradon. Wheal Mary Ann. Great Wheal Vor. Clifford Amalgamated, Trelawn, and Great Forty.

SPECIAL BUSINESS in—
Great Laxey,
Wheal Seton.
Providence.
East Frovidence.
East Frovidence.
East Frovidence.
East Forume.
Wheal Mary Ann.
Wheal Mary Ann.
Clifford Amalgamated,

JOHN B. REYNOLDS, STOCK AND SHAREBROKER, 2, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C., executes orders promptly. SPECIAL BUSINESS in East Lovell.

2. HATTON COURT, THREADNEEDLE STREET, LONDON, E.C., executes orders promptly. SPECIAL BUSINESS in East Lovell.

"I never get anything by mining transactions, and therefore I decline making any further purchases." Such is the answer received very often by brokers who, in periods of depression, like the present, urge their clients to invest in mines. There are those, however, who eagerly selze at an opportunity like this to make a careful selection, and buy as largely as their means will justify them in doing, and such are the parties who make mongy in these securities without difficulty. Seasons of inactivity are, of course, followed by a reaction, and when this sets in the prudent speculator is in a position to realise advantageously, whilet the unfortunate one, "who never gets anything by mining transactions," is without stock, having sold at the lowest quotations.

There are some mines of capital standing that are making very considerable returns, but have suffered severely from the terrible depression in the metal market, and which will most assuredly have a remarkable rebound when metals advance in price, or a good discovery takes place in the properties. To such investments I would call the immediate attention of capitalists, not excepting those who are averse to speculation, believing, as I do, if ever there was a time when money could be put in certain mines without risk it is now. I am not amongst the number of those who think that good limes are far in the distance, for there are already symptoms of coming prosperity. Quietly—very—are good shares being bought and stored away. Judicious business men are already in the field. By taking care of themselves they are helping to turn the tide, and who does not wish them every success?

Daring the many years I have been connected with the Mining Exchange I have kept allst of mines which I have considered good for investment and speculation, and I always endeavour to recollect that the interest of the broker to be broker to be very caucitous; but it is a daty e

MR. GEORGE BUDGE, SHAREDEALER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 17 years), has FOR SALE at nett prices:—20 East Grenville; 20 Marke Valley; 40 Sithney Metal, 35s.; 20 Illogan, 15s.; 10 Theoroft; 3 Herodsfoot; 100 Wesla Gold, 18s. 6d.; 2 West Sharp Tor; 50 Okel Tor, £3%; 50 East Rosewarne; 1 South Cáradon; 150 Anglo-Brazilian, 6s. 6d.; 2 Mierra, £306; 150 Wheal Pollard, 1s. 6d.; 100 Santa Barbara; 20 East Grambler and St. Aubyn, 13s. 9d.; 25 Gonamenn; 100 Frontine and Bolivin; 20 North Treaberby; 130 Merllyn, 2s. 6d.; 50 East Rossell; 120 St. Day United; 2 West Damsel; 50 Wheal Hartley, 10s.; 2 Wheal Ston; 200 Bottle Hill, 1s. 6d.; 20 Hallenbeagle; 150 Fort Phillip; 30 East Chiverton; 15 Camborne Vean; 1 West Toigus; 50 Wh. Crebor.

Every information can be obtained on personal application, or by letter, as to purhases and sales of Mine, Railway, Bank, and other Shares and Stoks, and the best insentent for capital.

From the close proximity of his offices to the Stock Exchange, as well as the Mining Kxchange, Parkm Warson is enabled to act with promptitude on all orders entrusted on him, which at all times are carried out with punctuality.

PETER WATSON'S WEEKLY MINING CIRCULAR AND SHARE LIST, published every Friday, price 6d. each copy, forwarded on application. This Circular contains weekly important information with respect to all the principal Dividend and Progressive Mines in Devon and Cornwail.

79, Old Broad-street, London, E.C.

CAPITALISTS AND SHAREHOLDERS IN MINES will do well to read the "Weekly Circular," published by Peter Watson, of Friday, November 4, Vol. VII., price 6d. each copy.

In this Circular there are several mines mentioned which are certain to pay good in-

Terest, or otherwise greatly advance in market value.

79, Old Broad-street, London, E.C.

AMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION:—
5 Anglo-Mexican Mint.
16 Bedford United, £2 13 9 5 6f. Wh. Vor. £33 16 3 30 Bottle Hill; 2s.
3 Bedol-Aur.
20 Beryntall, £2\(\frac{2}{4}\).
5 Biller.
10 Boscawen.
10 Caivadnack, 18s. 6d.
40 Caradon Hill.
5 Clifford Amaig., £33 8 9 3 6tleily Bray, 10s. 9d.
1 Cargoil, £38 .
2 Cwm Erfin, £33\(\frac{4}{5}\).
5 Clwerton, £6 7s. 6d.
40 Cranver Abraham.
5 Chiverton Moor, £2\(\frac{4}{5}\).
5 Chiverton Moor, £2\(\frac{4}{5}\).
5 Chiverton Moor, £2\(\frac{4}{5}\).
5 Chiverton Moor, £3\(\frac{4}{5}\).
5 Cast Cara Bres., £3\(\frac{4}{5}\).
5 Dale.
20 Drake Walls, 15s.
1 East Russell, £4 18s 9d.
5 East Caredon, £18\(\frac{4}{5}\).
5 East Caredon, £18\(\frac{4}{5}\).
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5 East Caredon, £18\(\frac{4}{5}\).
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5 East Caradon, £2\(\frac{1}{5}\).
5 East Caradon

50 East Seton.

17 East Russell, £4 18s 9d

5 East Lovell, £14%

10 East Chiverton, 20s.

15 East Margaret.

20 E. Rosewarne, £2%

10 East Grenville, £5%,

50 East Laxey.

5 East Oaradon, £18 16 3

20 Gwydyr Park.

25 Great Caradon.

20 Gardfon.

1 West Seton, £207½.
30 Whest Arthur, 3s.
50 Welsh Gold.
20 West Great Work.
20 Worvan Downs.
20 Wheal Hope.
20 West Stray Park.
10 Wheal Grylis.
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20 Whoal Grylis.
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20 Whoal Harriett.
20 Wheal Harriett.
50 Worthing, 17s. 6d.
20 Wheal Crebor, 37s. 6d.
20 Wheal Crebor, 37s. 6d.
20 Wheal Uny.
50 Yudanamutana, £1%. 25 Great Caracon.
20 Garidona.
20 Gargow Wheal Gill.
20 Great So. Tolgus, 31s 64
50 Get. Northern Copper, 1s.
20 South Carn Brea.
(call paid).
20 South Grenville, 5s. 9d.
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MESSRS. VIVIAN AND REYNOLDS, 37, OLD BROAD N. STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES
DOMMISSION, and GENERAL AGENTS for the PURCHASE or SALE of MINE
HARES, RALLWAY, and EVERY OTHER DESCRIPTION OF STOCK.
Commission on share transactions 1½ per cent. on £100 and above, and 2½ per cent.

MR. EDWARD COOKE, MINING SHAREBROKER, 2, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C. (Member of the Mining Exchange.)
Mr. EDWARD COOKE has removed to the above address, where all communications on matters relating to business will meet with his usual attention.
Nov. 25, 1864.

Bankers: Alliance Bank, Lothbury.

MR. GEORGE BATTERS strongly recommends his friends to buy West Chiverton, Chiverton, Herodafoot, South Caradon, Devon Great Consols, Great Wheal Yor, Prosper United, Wentworth Consols, and Sithney Wheal Metal for investment. These shares will pay good interest for money at present quotations. 76, Old Broad-street, London, E.C.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 19, THROGMORTON STREET, LONDON, E.C.

HARES WANTED IN THE FOLLOWING MINES, most of which are at the same time strongly recommended for an early and immense rise in value:— Wheal Jane. East Lovell. South Condurrow. Wheal Margaret. Trencrom.

Rosswarne United. West Caradon. Grambler and St. Aubyn. East Wheal Russell. Kitty (Lelant). South Basset. East Grambler. Tolvadden.

Great Fortune. Tolvadden.
Friends and investors, if they would consult their own interests, will do well to ac
upon this advertisement, and not treat it as one of the empty statements so often pu
forth in the public journals.

Hubert Barnes Rye.

Mining Offices, 77, Old Broad-street, London, and Mining Exchange, Nov. 22, 1864. GEORGE RICE, SHAREBROKER, 5, COWPER'S COURT,

| CEORGE RICE, SHAREBROKER, 5, COWPER'S COURT, | COMPER'S COURT, |

EAST LOYSEL.

the prospects of this mine, and should be consumed by successful the prospects of this mine, and should be consumed at long the property of the

JAMES HUME, SHAREBROKER, 74, OLD BROAD STREET, AND MINING EXCHANGE, LONDON, E.C., is a BUYER of East Grenville, East Lovell, £15.

East Lovell, £15.

Lovell, £15.

HULL'S "Circular" for November will be sent on receipt of six stamps. As these he best times to make a careful selection of shares, Mr. Hume recommends those wish to consult him to do so before the markets resume their wonted buoyancy. Commission, 1½ per cent.

Bankers: London Joint-Stock Bank,

STOCK AND SHAREDEALER.—MR. PETER WATSON,
ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES, 79,
OLD BROAD-STREET, LONDON, E.C.
Twenty years' experience.
(Two in Cornwall and Eighteen in London.)
Bankers: The Union Bank of London, and the Alliance Bank.
Every information can be obtained on personal application, or by letter, as to pur

MR. T. P. THOMAS having had the FOLLOWING SHARES
for sale at his last auction, without reserve, and for which he had no bidding,
will be happy to receive orders for all, or any part, the same being now FOR SALE:—
250 Wheal Unity.
20 Wheal Hearle.
50 Great Caradon.
50 Crosler Valley and Port
50 Great Caradon.
50 North Pool.
51 Madoc Slate Com700 Great Northern of Auspany (£2 paid).
53 Roskearnowth.

IMPORTANT SALE OF VALUABLE MINING SHARES.

IMPORTANT SALE OF VALUABLE MINING SHARES.
300 shares in the Havan Silver-Lead Mine, Cardigaoshire (£5 fully paid-up),
750 shares in the Silver Mountain Lead Mine, Cardigaoshire (£5 fully paid-up),
250 shares in the Cwmaymlog Lead Mine, Cardigaoshire (£5 fully paid-up),
220 East Wheal Providence Mine, Cornwall,
50 Wheal Grylls Tin Mine, Cornwall,
45 East Gunnis Lake shares (forfeited for non-payment of calls).
And sundry other shares not sold at my last sale, particulars of which will appear in he next Journal.

MR. T. P. THOMAS has received instructions to SELL the ABOVE SHARES, BY PUBLIC AUCTION, at Garraway's Coffee-house, Change-alley, Cornhill, London, on Thursday, the 8th day of December, at One o'cicek. For further particulars as to Havan, Silver Mountain, and Cwmsymlog application may be made to Messrs, Guerin and Dell, 1a, Adelphl-terrace, Adam-street, Strand; as to East Gunnis Lake, to the secretary, Mr. Laws, 50, Threadneedie-street; and for catalogues to Garraway's, the Mining Journal office, and the auctioneer's offices, 6, 0id Broad-street, London.

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER, 37, OLD BROAD STREET, LONDON, E.C.

5 Cifford, £34 2s. 6d. 25 G. E. Lovell, £2 10s. 6d. 40 Vals of Towy, 4s. 6d. BUYER of Marke Vallery, £4 12s. 6d.; Nanglies, £20; and South Crofty, £10\\(\frac{1}{2}\). Business done for the fortnightly account.

Special business in Torbay Hematite Iron (Limited).

Parties of respectability can have transfers registered into their names previous to ayment.

Bankers: London and County Bank.

WANTED, CARN CAMBORNE SHARES.—
State number and lowest price to "H. H. P.," Post-office, Winchester.

ENRY GOULLD SHARP, ARP, STOCK AND SHAREDEALER, 32, POULTRY, LONDON, E.C., Member of the Mining Exchange (established 12 years),
Is in a position to give SOUND ADVICE and RELIABLE INFORMATION as to the SAFEST and BEST PAYING INVESTMENTS of the day, both in RAILWAY, BANKING, MINING, INSURANCE, DOCK, GAS, FINANCIAL and OTHER SHARES.

SAFE INVESTMENTS FOR CAPITAL.

The following DIVIDEND and PROGRESSIVE MINES are perfectly safe for the investment of capital:

ince solitowing DIVIDEND and PROGRESSIVE MINES are perfectly safe for the investment of capital:—

CLIFFORD AMALOAMATED (COPPER).—In 2900 shares, £30 paid, price £35 per share. These shares continue very firm; it is difficult to find a solice at the advanced price. The mines are looking spiendid. Their sales of copper or are continues, over 1300 tons bi-monthly. Upwards of £1,100,000 has already been paid in dividends. They pay £3 annually, which will increase, being \$3\circ\$ per cape to present price. The lodes of these celebrated mines pass into Nanglies.

East Canadom (Corpen,)—in 6144 shares, £2 14s, 6d. paid, price £19 10s, per share. These shares have dropped from £55, at which price they were much too high. They are now worth buying. The last quarterly dividend was 17s, per share, being 17 per cent, upon present price. £74,342 has been paid in dividends the past three years.

East Basset (Corpen,)—In 512 shares, £29 10s, paid, price £45 per share. An improvement would cause a considerable rise in price. £62,976 has been paid in dividends. The present rate of dividends is £12 annually, being 22½ per cent, upon the market price.

Great Wheat Laxey (Lead):—In 19,500 shares.

provement would cause a considerable rise in price. £62,976 has been paid in dividends. The present rate of dividends is £12 annually, being 22½ per cent. upon the market price.

GREAT WHEAL LAXEY (LEAD):—In 12,500 shares, £4 paid, price £18 per share. This mine has greatly improved, and likely to continue a lasting dividend-paying property. Shares have advanced from £4½ to present price since Jinuary last. Dividends are payable quarterly, 10s, per share (the will gradually incresses), being 11 per cent. upon present price. This property now commands a market value of £22,000. Phovipsince (Tin).—In 1120 shares, £10 6s. 7d, paid, price £38 per share. This mine has given £32,040 in dividends. They pay £1 per share quarterly, which is 10½ per cent. on present price of shares. The mine is looking well. A rise in tin would pat shares to £45 again, and increase their profits.

WEST WHEAL STON (COPERS).—In 400 shares, £47 10s, per share, price £205 per share. These shares pay £4 every two mouths, which is 11½ per cent. on present outlay. £168,600 has been given in dividends. They are a good investment, and certain to rise in price.

WHEAL TRELAWIY (LEAD).—In 1040 shares, £5 17s, paid, price £20 10s, per share. This mine has given in dividends £52,260. They pay 12s. 6d, per share quarterly, being about 12 per cent. on present price.

WHEAL SETON (Tin AND COPER).—In 397 shares, £58 10s, paid, price £200. This mine is looking well, and holds out prospects of great improvement. Dividends are paid every two monts £4 per share, or £24 annually, being 12 per cent. upon present outlay. They are a sate investment, and will rise in price. £73,756 has been paid in profits. NANGUES (Tin AND COPER).—In 1024 shares, £19 paid, price £22 per share. There are no shares offering. The mine continues to look well. The ore is coming in the 107 east, an important feature. The 107 west is still looking very favourable. The winse below the 96 is still improving; lode worth £30 per fm., and leaving a rich lode in both ends of the winze. The w

EAST WHEAL YOR (118).—In 0000 SDATES, 20 paid, price 21 175. 63, per share. There is an improvement here. A large number of shares abave been bought up for investment. They are cheep shares at £1%, with £4000 in hand for working expenses. They were salenble at £5 a few months since, and there is no just cause for the fall in price. The mine adjoins and has Great Wheai Vor lodes.

The following are also well worth buying at present quotations:—East Providence, East Carn Bres, Wheai Uny, Lady Berths, Wheai Agar, North Basset, Wheai Ida, Wh. Margery, Wheai Margaret, West Caradon, East Chiverton, South Condurrow, Pendeen Consols, North Crofty, Great South Tofus, St. Day United, Cook's Kitchen, &c.

Bankers: London and Westminster, Lothbury, London, E.C.

HARRIS AND CO., STOCK AND SHAREBROKERS,

AND FINANCIAL AGENTS,

15, GEORGE STREET, MANSION HOUSE, LONDON, E.C.

Hannis and Co. having made special arrangements for transacting every kind of business in the Stock and Shares of Mines, Iroaworks, and other Industrial Companies, are prepared to effect, at the closest prices, purchases or sales of such atock on commission. As they transact a purely commission business, they are prepared, in every case, to give the names of principals.

In transacting their business Hannis and Co. hey to state that they make it a release

the names of principals.

In transacting their business Hanris and Co. beg to state that they make it a rule not to be themselves connected with any concern as promoters, or piacers of stock: they endeavour to make themselves acquainted with every available information on the intrinsic merits of all stocks, but avoid identifying themselves with any particular undertaking.

dertaking,
With respect to stock in mines and ironworks, Harris and Co. have made arrangements to secure the very best and earliest information that can be had from the seats of operation. In the metallic mining districts of Cornwell and Devon, Wales, Shropshire, and the Isle of Man, of the Midland Counties, of Yorkshire and the Northern Counties.

and the laie of Man, of the Midhand Counties, of Yorkanire and the Northern Counties, and of Irelaid, they have agents and correspondents among the best-informed persons. They have also full and special information of all facts affecting the interests-of every company connected with the Coal and Iron districts.

Harkes and Co. have correspondents in New York, Boaton (U.S.), Halifax (Nors-Scotia), Philadeiphia, San Francisco, Melbourne, and Adelaide, by which they are in a position to buy and sell American and Australian stocks for European buyers, or European stocks for American or Australian buyers, on unusually advantageous terms.

Harkes and Co. issue a circular to their clients on the drat and third Wednesday in each month, which, for the convenience of their foreign and colonial correspondents and contours. It secistores at the Post Office for transmission about.

Briginal Correspondence.

CORNISH MINING-THE ROYAL COMMISSION.

CORNISH MINING—THE ROYAL COMMISSION.

Sin,—It is always a difficult undertaking to induce a commercial man to expend capital, interest for which is not immediately and directly forthcoming. On this ground, and on this alone, can we account for the indifference with which mine adventurers always view the question of the health of the miners in their employ. Even, however, commercial men, we trust, are amenable to statistical conclusions such as are laid before them in the Report of the Royal Commissioners on Mines, lately published. There we see, indisputably, that the life of our Cornish miners is of shorter duration than that of any other portion of the community. Now, a large portion of our Cornish miners are real adventurers in the mine, not in way of holding shares, but as giving their time and labour in return for a certain percent shares, but as giving their time and labour in return for a certain percent age of all the ore they can extract. This mode of working the mines has been greatly on the increase of late years, and has induced the agents and adventurers to view the health of the miners with perfect indifference; and they argue that if there is ore in that part of the mine set to tribute the adventurers must get their share of it, whatever be the condition of the miners. This argument is a most erroneous one for in observed miners. miners. This argument is a most erroneous one, for in no branch of mining is it more important that the labourer should come to his work with all his powers of body and mind unimpaired than in tribute mining. Fatigue and is it more important that the labourer should come to his work with all his powers of body and mind unimpaired than in tribute mining. Fatigue and weariness, of necessity, induce carelessness, and in working on in an indifferent manner the miner may fail to discover that first minute string of ore, the leader, possibly, to a rich vein. Once passed, this string on the wall, possibly, of the level is soon obscured by the dirt and smoke, and lost to view, and the adventurers as well as the tributers are losers thereby. Such is not an imaginary case, but one of not uncommon occurrence. On this commercial ground, then, we say to the adventurer it is to your interest to keep your miners in good health, and to bring them to their work fresh and sound in wind and limb. Now, in very few instances can the miner arrive at his work fresh, for he is compelled to descend by ladders to a depth often below 200 fathoms; thus losing a considerable portion of his working time, and at last arriving at his destination hot and weary. Before commencing to work he is compelled to rest and cool himself, and so there is a still further loss of time; and after all his rest he cannot seize the pick and gad with the same vigour as if he had to perform the same duty at grass. His allotted period of labour having elapsed, he has to transfer himself from this great depth to the surface: exhausted with his work, the most tedious part of his day commences when he puts his foot on the ladder-stave to ascend, and he arrives at surface breathless and exhausted. This climbing by ladders is, we think, the most injurious part of the miner's existence; and we are convinced that it is most advantageous, in a pecuniary point of view, to provide some mechanical means for taking the miner down to, and bringing him up from, his work. Under this head we are much disappointed with the report of the Commissioners; and although it may be we expected too much, considering how very little the members of the Commission could have known on the subject, yet we had

to and from their work. The only three contrivances, they tell us, are the man-engine, the skip, and the wagon on an inclined-plane; and in reading their report we can but conclude that they considered the skip not the least applicable contrivance for the purpose. Our opinion differs so widely from this, that we can but express our reasons for it.

The most important requisites in the machine we want are speed and safety. Of the first of these—speed—we may affirm that unless a skip be of such dimensions as are found in our collieries (a thing quite impossible in the small shafts of our Cornish mines), anyone can prove for himself that run a skip up and down the shaft at anything like a safe speed, a manengine, making six strokes a minute, is capable of transferring by far the larger amount of men from surface to a given depth in the same time. Of the second desideratum in our machine—safety—we need only take the number of accidents in one of the mines where the skip is adopted, and compare them with the accidents where there is a man-engine, and the advantage number of accidents in one of the mines where the skip is adopted, and compare them with the accidents where there is a man-engine, and the advantage of the latter will become immediately apparent. We cannot here help a smile at the evident terror (from the tone of their report) with which the Commissioners viewed the rising and falling pole of the man-engine; but, having continually travelled by both, we undesitatingly affirm that on the manengine we have always felt secure, and in the skip continually in terror. Besides our Cornish mine shafts, from their small size and varying underline. engine we have always felt secure, and in the skip continually in terror. Besides our Cornish mine shafts, from their small size and varying underlie, are peculiarly inapplicable for the general adoption of the skip. And, further, for another reason we prefer the man-engine to the skip, and that is on account of its being amuch cheaper contrivance in the long run. As first put up in our Cornish mines, and even as now modified, the man-engine is a costly machine; but what we would propose is a still cheaper modification, such as is adopted in the mines on the Continent, where, for the costly timber rods iron ones are substituted. Attention to some such cheaper form of the man-engine would well repay the Cornish engineers. In Germany these machines cost far less, taking into full account the difference in the value of labour and material here and there. As to the third method—that of a wagon on an inclined-plane—we need not say anything. The fearful accident in Botallack Mine must be still fresh in the memories of many, and we trust that no such machine will be ever again proposed of many, and we trust that no such machine will be ever again proposed and brought into use as that fearful "gig," running on rails on an inclined-plane, by which the miners were taken down and brought out from that and brought into use as that fearful "gig," running on rails on an inclinedplane, by which the miners were taken down and brought out from that
mine. One shudders as one remembers how short a time previous to
that occasion, on which nine lives were lost by the snapping of the chain
by which this "gig" was moved, we, with others, descended the very mine,
and cannot help remembering how the miners checkled at our expressions
of doubt as to the security of that mode of travelling, and laid the same to
our inexperience and cowardice. When we began to ascend, and were
spasmodically drawn by jerks at a great rate for a few fathoms, and then
let suddenly back a foot or two, and as suddenly jerked on again, the miners
seemed to revel in the scene. To us it was nothing short of awful, and,
though it has been our lot to descend mines in all parts of England and
the Continent, we never on any one occasion hailed with such joy and thankfulness the change from underground to grass as we did on that day when
we emerged from the hole in the Cornish cliffs.

I have used here strong language, but not too strong, I trust, for the oc-

I have used here strong language, but not too strong, I trust, for the occasion, for, if a voice can have any weight, I am convinced it cannot be used to better purpose than to condemn so untrustworthy a machine.

THE SLATE TRADE IN NORTH WALES.

THE SLATE TRADE IN NORTH WALES.

Str.,—In accordance with the promise in my former letter of noticing the other trials in the Llanllechid Mountain, I shall first notice the "Cefn-yr-Orsedd trial," which, as stated in the Journal some months back, is situated about a mile to the north-east of the Penrhyn Quarry. This trial was commenced about fifteen months ago, but the works were not regularly carried on till about three months since, when the original proprietors came to terms with a Manchester man for thirteen shares, and the remaining three shares to be also worked for them, free of all costs. Since this arrangement the works have been pushed forward with all energy, and have also been inspected by one of the agents of the Peurhyn Quarry, and most favourably reported upon; and certainly, from all indications, when the present shaft is finished, and an opening made from this shaft, the present adventurer will be rewarded for his outlay by large returns of slates, which in quality, &c., are not surpassed by any in North Wales.

"The Afon Wen trial."—This opening is situated about three miles, in an easterly direction, from Cefn-yr-Orsedd, and close to the river from which it derives its name. Operations were commenced here about nine months ago, and were vigorously and energetically carried on till about the commencement of this month, when, owing to the severity of the weaters.

months ago, and were vigorously and energetically carried on till about the commencement of this month, when, owing to the swerity of the weather, and its great distance from Bethesda (five miles), the works have been suspended for the winter. This opening appears very encouraging, but as the proprietors, who are quarrymen, and without the requisite capital to develope such an undertaking, have fortunately come to terms, I am informed, with Mr. J. Francis, of the Penryhn Quarry, this fact alone, if correct, scales highly for this trial formed, with Mr. J. Francis, of the correct, speaks highly for this trial.

correct, speaks highly for this trial.

The last I shall at present notice (although there are as many as eight other trials) is the "Lildiart-y-Graian Quarry." This is situated about one mile to the north of Cefn-y-Orsedd, and probably on the same vein, and has two openings, but one of which at present has been abandoned. Theother is in a forward state, and has already produced some excellent slates. It is most forward state, and has already produced some excellent slates. It is in a forward state, and has already produced some excellent slates. It is most favourably situated to have a quarry on a grand scale, like the Penrhyn Quarry, for the hill rises here to a great height, so that as many as a dozen galleries could be easily formed; but the only great difficulty here, as in Pant-y-Daran, in case they are to prove valuable slate quarries (and which I have not the least doubt they will), is the construction of a road or tramway for the conveyance of slates, as the present roads are unpassable, except for sledges, which are used to carry down the peat. In concluding, I beg to state that in a few years, when these trials will be developed, it is my firm conviction that their produce will form an important item in the slate returns of the new quarries in North Wales.

Beaumaris, Nov. 22.

E. A. W.

Heaumaris, Nov. 22.

P.S.—Since writing the above I have been informed that a company has purchased the last-named trial, and that the works will, therefore, be extensively carried out early next year.

MINING IN IRELAND.

MINING IN IRELAND.

Sir.,—A recent visit to Ireland has yielded me many opportunities for witnessing, with much pleasure, what must be a source of great gratification to the well-wishers of that charming country—I mean the improvement in some of the mining districts, particularly those in the county of Cork, through the impulse given to the development of its rich mineral resources by the irresistible influence of the large amounts of capital now being invested in the many valuable properties which abound in this locality. My attention was particularly drawn to the estate of the Ecclesiastical Commissioners, south of Schull. Capt. Alfred Poole, manager of the Schull Bay Copper Mine, has been engaged for some time by a company of influential capitalists in Liverpool, and has made a mineral survey of the whole property, which is now cleverly mapped, showing the several lodes, slate veins, free-stone veins, &c., and their direction, large deposits of manganese included.

of manganese included.

A highly valuable slate quarry, on Lord Bandon's property, near Bantry, is now being worked by the above-named company, designated the 'Rossmore Slate Company.' Already they have opened the back of a rich slate vein in the South Schull estate; they have also determined to commence operations on some of the lodes—indisputably rich in copper—passing through their sett. To the east the mines at Cappagh, Schull Bay, Ballycummisk, and some others, bear testimony to the productiveness of this district, although to the westward several trials have been made, with no very encouraging results. The copper mine at Schull Bay, which certainly presents indications of being a property likely to yield a rich return for a judicious application of capital, will, it is to be hoped for the sake of the numerous shareholders, soon resume active operations, as the manager has had much experience in England, Wales, Scotland, and on the Continent, and appears an intelligent and energetic man.

The manifestation of monied enterprise by producing employment for "the finest pisantry on God's earth," as Dan O'Connell used to say, must very seasonablytend to check the wild exodus of the fine fellows—the bone and muscle of old Ireland—who, under the influence of one delusion or another, have been induced to quit their native soil; and I venture to think

another, have been induced to quit their native soil; and I venture to think that, with the aid of the Journal, they will, ere long, be convinced (however prone to blunder, and rampant with the love of fighting) that there is much wisdom in preferring the jingle of metal (even hamble copper) bearing the impress of Victoria, to the greenbacks and shin-plasters of fratricidal America.

BORING MACHINERY-ITS INVENTION.

BORING MACHINERY—ITS INVENTION.

Sir,—In Mr. Green's first communication to the Journal he laid claim to the invention of my Patent Boring Machine, although I had been three years engaged on it before I even ever saw him. In my answer I stated the facts—that he only made two machines by my permission, and on payment to me of a royalty on the same, and took the opportunity of giving the credit to chose gentlemen to whom it was due for designing the pillar, stand, &c. In last week's Journal he again comes forward, and gives what he vaguely states as a description of his specification. I see he heads his letter No. 1, which, I presume, means the commencement of a series. Now, as I am beginning to reap the reward of near six years' labour, in the shape of several extensive orders, which fully occupy all my time and attention, when he has finished his lucubrations I shall be better able to give what notice to them they may deserve. I could say a good deal on No. 1, but will reserve it until he has finished.

E. CREASE.

Tavistock, Nov. 23.

BORING MACHINERY-ITS INVENTION-No. II.

Sir,—It will now be necessary for me to state the point of perfection Messrs. Crease and Williams had attained when the patent excavating machine, so called, came under my notice, the joint production of the engineering capacities of those two gentlemen; and be it always remembered, as Mr. Williams informs your readers, that machine (not mine) no one living knew anything about the designing but themselves, and it was made after the fullest and most mature study and deliberation. Endless designs had been suggested, altered, and abandoned, and others substituted, during a period of two years. This fact would suggest that they had undertaken rather too much, and the sequel will prove such was the case. However, imagining that they had hit on the proper method to construct the machine, a contract was entered into with the Vigra and Clogau Mining Company to drive 200 fms, at the minimum rate of 1 fm. per day. This contract was taken, I believe, before the machine was even began; at any rate, a great campy months before it was completed. Without entering into details of the construction of this machine, I state that there was not a single limb of the machine or arrangement for its application, as it came from the head and hands of its originators, that answered the purpose intended; in fact, a more complete failure could not possibly have been made than the result of the trial of Messrs. Crease and Williams' excavating machine at the Vigra and Clogau Mine, which will be seen as under. The whole cost of the machine, noted that the resone six months of preparation, and two months of working, about 2 fms, of ground were driven, at a cost for driving alone of 701, per fm.; in addition to the above, at least 261, per fm. going for working the ventilation apparatus alone, for each of the 2 fms. driven; here is something like 1800, spent in working out the well-matured plans of a really talented and practical engineer, combined with the aid of Mr. Crease, who is styled by Mr. Armitage as just the person to carry a thing out Sir,—It will now be necessary for me to state the point of perfection tessrs. Crease and Williams had attained when the patent excavating

another medal, and I advise Mr. Armitage on his return to see to this matter on behalf of his cool friend.

Respecting this latter gentleman, I may mention I do not know him, and would not mention his name, but for one very untrue statement he has made. He states I had the folly to paim off Mr. Crease's machine to Lord Kinnaird as my own invention, whereas his lordship had been in this part, and had heard of my machine, and was induced to come to Aberystwith with the Royal Commissioners on Mines.—[I enclose you a copy of my examination on the subject, which will at once refute the statement.] According to Mr. Crease's wish, I was content for everything to go in his name, and to render him every assistance in my power to work it out.

That my machine is not the worthless thing so untruely and dishonestly stated Mr. Crease's agreement proves, and my answers to the Royal Commissioners is also fully proved by the working of the machine itself by the enclosed report, and signed by the taker, to drive 10 inthoms of adit at Dolwen. I will here state that this is the only 10 fathoms over driven successfully by any machine. The holes of 2 ft. deep were frequently bored in 12 minutes, but holes bored averaged but six per day of 8 hours, the rest of the time beling occupied in removing the debris: the actual speed attained was about double what could be done by hand labour, and the cost some 15 to 20 per cent. lower; the whole 8 fathoms 4 feet were driven by the miners themselves, and if I had had a patent myself dozens of those machines would have been working now.

Dolgelly, Nov. 21.

THE SOUTH STAFFORDSHIRE IRON TRADE

THE SOUTH STAFFORDSHIRE IRON TRADE.

SIR,—As is customary with Mr. Shepherd when checkmated, he shirks the question at issue, and makes a desperate effort to divert the stream of Sirk,—As is customary with Mr. Snepherd when the extended, he shirks the question at issue, and makes a desperate effort to divert the stream of thought into another channel; so, in reply to my accusation of great inconsistency, he ignores the point that gave rise to my doing so, and never once touches on or names it, but positively discowns his own statements, which he gave to the world nearly five years ago as truthful facts, &c., and adroltly endeavours to turn the tables on me, by asserting the figures to be mine, and not his. Now, Mr. Editor, what can one do but once again state the facts of the question? Mr. S. H. Blackwell has stated in his candid letter on the decadence of the Staffordshire iron trade, and its rise in other newer places, that from Wiltishire, Whithy, and Middlesboro', Staffordshire can be most economically supplied with pig-iron. To this, so far as Whithy is concerned, Mr. Shepherd has taken exception, and asserts that Mr. Blackwell has not told the whole truth as regards the Grosmout (Whitby) district. On this assertion, I undertook to prove, from Mr. Shepherd's own acts and statements, that nearly five years ago he promised to put the whole valley into one blaze of ironworks, so as to astound and astonish all the old seats of the iron trade. Staffordshire even then, by Mr. Shepherd's own showing, was on the wane; but, owing Whitby a gradge, he thought he saw in Mr. Blackwell's atoward of Whitby's ability to supply Staffordshire itself economically with pig-iron a fitting opportunity to give Whitby (his old flame) a right good slap in the face; and, not carring a fig for Mr. Blackwell's other two selected localities, he singles out Whitby, just for old remembrance sake, forgetting all the while the rod he placed in pickle five years ago, and what a proof of inconsistency he was at the moment affording. But we are not left to this alone to prove that Mr. Blackwell was right and unassallable by Mr. Shepherd, who was so fully convinced five years ago of the fickering nature of the fron ma

General charges, say 30 per cent. on receipts ... 205 0 0 = 837 0 0

Weekly nett profits ... £183 0 0

And, if sold on the spot, 12s, per ton would be saved, making 144l. per week extra. Mr. Shepherd hienself thus gives the profit on making pig-tron at Grossmont, on a cost of 1l. 16s, 6d. per ton, amounting to 188l. per week nett profit, which would give us a yearly return of 9716l., and this pretty sum he undertook to derive from an outlay, for works, plant, &c., at, he says, "the high estimate of \$600l." allotted thus:—

Erecting two furnaces, capable of making 240

tons of iron per week ... £2000 0 0

Blast-engine, for blowing furnaces ... \$2000 0 0

Slanking pair of shafts and machinery ... \$000 0 0 = £5500 0 0

Now, this is something like a profitable business; nothing can or could be so very satisfactory to Mr. Shepherd as this refresher of his own statements of cost and resulting profit. He closes his prospectus by informing the world that his services are secured to the Grossmont Iron Company, &c., and that he will be responsible for the entire management, the same as in a private concern. So, of course, nothing at this time could be so satisfactory to him than this detail of his own statements and figures of the cent and profit of iron at Grosmont, and this cost he himself guaranteed at I. 16s, 6d, per ton. In my previous letter, the question as to the cost of girders formed no part of my object, that alone being to expose Mr. Shepherd's inconsistency, and was named alone in the form of a mere suggestion, that as Mr. Shepherd professed to be able to produce from here at II. 16s, 6d., and seeing that Whitely has shipped her fron to France to England. It is a matter I feel little interested in; the vindication of the iron trade of this district is quite another matter, and to this I applied myself, and not to the other items—Mr. Shepherd's attack on Mr. Blackwell never used the solution therein might be bad to the fact stated of the import of girdors from France to England. It is a matter I feel little i

MR. NICHOLAS ENNOR'S SYSTEM OF GEOLOGY.

NO. XIX .- HOT SPRINGS IN CORNWALL.

NO. XIX.—HOT SPRINGS IN CORNWALL.

SIR,—I concluded my letter (No. 18) by remarking on the Clifford hot water, and I have now to notice a second hot spring, and in doing so I would call the attention of the public and the Duchy officers to my letter on Clifford, written in the Journal nearly ten years since, in which I then remarked on this hot spring, that was discovered in a mine in Calstock about 55 years ago; the mine is now known as Calstock United. This water was cut in the deep adit at the bottom of the shaft, at about 35 fms. deep. This is the hottest spring I ever met with in Cornwall, except the one at the United Mines. At this point the lode is large, composed of sulphur, Iron, and peach, with only a small portion of copper. This water at the adit level comes out of the footwall, and nothing was ever done below this adit.

The mine was worked by the Messrs. Taylor at the time of the discovery of this het.

At this point the lode is large, composed of sulphur, iron, and peach, with only a small portion of copper. This water at the adit level comes out of the footwall, and nothing was ever done below this adit.

The mine was worked by the Messrs. Taylor at the time of the discovery of this hot spring, and some years after the captain put two men to cut north of the adit; thy were in about 4 or 5 ft., when a hole exploded whilst tamping, and killed a man named Braming; after which no one would go there to work, and some even went so far as a say that the heat caused the hole to explode, but this was simply ridiculous, still no one would work there after, and it has remained untouched to this day. I was young at the time, and dld not particularly notice this remarkable phenomenon. I do not think the temperature was ever ascertained by anyone; in fact, I doubt if the mine agents ever heard of or saw a thermometer taken into a mine in those days, they thought so little of it, and no further attempt was made to see where the water came from.

About five years after this men were set to stope on the sulphur lode above adit, and they sent it to Drake Walls, and caliened it in a tin-burning house for areance, and, as a matter of course, they caught no sulphur, and but very little arsente.

I observe that Mr. Tennett made some strong remarks on evidence given in the House of Commons, where one witness stated that the miner had made no progress or improvement in mining for the last half century; but I should be very sorry for any man, notwithstanding I helped to raise this sulphur mundie, to turn round and taunt me with having carried sulphur mundie for miles to a tin-owen to calcine it to catch sulphur in a burning-house fine. Whils: I am on this subject I will go a little further, and say that I have heard old capitains tell the tributers at public survey to take their pitch, and go down and work away like hearty fellows, for "Where the ore was, there it was."

I will also call to recollection the time when old "Capel Tor

lefence of the Fracticals.

I again return to the hot springs, and first notice that the Clifford hot spring has been accompanied by a mass of sulphurous ore up to this time, and I argue that the heat of he water is caused by the formation of this ore; then I say that Calstock Consols Mine should have been sunk at this hot water point, at any rate so far as the hot water continued, and not have spent the money above the adit. Not having seen it for nearly 40 rears, I do not know if it still continues hot; but I by years after its discovery I could had no perceptible difference whilst standing in it. When remarking on it 10 years go, I requested those concerned to make a note of its temperature, but I am not aware (this was done, although I also wrote the late Capt. Cock, asking him to do so. Froably his brother can give some information on this point.

These things are for the good of the mation, and we have a paid staff to watch and re-ord them, to guide the practical miners, who are, I again say, the only class of men who keep up England's wealth. And I say that these phenomena should be diligently

cord them, to guide the practical miners, who are, I again say, the only class of men who keep up England's wealth. And I say that these phenomens should be diligently watched, and the officials should visit and record them, whether they occur at the Land's End or John o' Groats. We have also a second staff—the Ducby,—whose interest it is to assist Practicals, and the Calstock spring is in their rights, and should mest assuredly be noted by them; but they keep only one practical man employed, and he has more than he can do 'having two counties to attend to) to watch when the leases of the mines expire, in order to get a premium for a new grant, as paid for the Phontx Mine; but these things are far from aiding the miner. However, I hope some one will now take the temperature, and give it to Sir Charles Lyell, to prevent his failing into a second error, such as he did at Bath.

I have a few questions to ask respecting these aprims:—1. Are they coming from the

now take the temperature, and give it to Sir Charles Lyell, to prevent his falling into a second error, such as he did at Bath.

I have a few questions to ask respecting these springs:—1. Are they coming from the great interior fire?—2. Are they only mineral productions? If the former, the Theoreticals may say they are dangerous things, and the less we meddle with them the better; that if they are produced from the collection of mineral substances we cannot pay to mach attention to them: let us sink and find them. I move (and I hope I shall mid some one to second my proposition) that a company be got up among the Theoreticals to sink a trial shaft, to be carried out until they find the seat of action from which this hot water emanates—whether from metal or mineral or from interior fire, they being aided by all the newest and best inventions of the day, until they arrive at the boiling point; and if it becomes so hot that the present inhabitants of the earth cannot continue these operations, I will use my influence with Mr. Alison to aid them with some of the new beings about to be rained down. I expect them to be salamanders, and taken from one of the fiery planets. Should he fail in getting them down in time, I pledge myself he shall aid them with a one worling—machine, capable of boring a shaft as far as the Theoreticals may want to go. I further propose that it be an unlimited liability company, the manager having a limited number of free shares, and a percentage on all the ore he may find, he bearing in mind that I do not guarantee he shall find copper worth 10t, per ton; it may turn out to be only sulphur and from, worth only 15s, per ton. For the new metal, lithium, I can offer no terms, as that may be a royal metal.

One word more on lithium, which is that I think but little of those new metals. Can

THE BUL many capits of the many capits of the mand extension of the mand e

se that is producing labour for the masses? From what I know of lithium with oxygen, and in doing so evolves heat, consequently these Bath men careful, fearing they may by their explanation of it explode Mr. Fox's

contains the careful, fearing they may by their explanation of it explode Mr. Fox's a fearing the careful, fearing the contains, I have only to say that the officials should set their juniors to take homeoned, I have only to say that the officials should set their juniors to take homeoned on the contains and an at a distance from the contains the contain

EAST GRENVILLE MINE.

EAST GRENVILLE MINE.

Inheald not have thought it necessary to trouble you with the following report for the sweeping assertion of Capt. George R. Odgers in his report of the first have thought for the sweeping assertion of Capt. George R. Odgers in his report of the first form in the first form of the first form of

MAGNESIUM, AND ITS LIGHT.

MAGNESIUM, AND ITS LIGHT.

Dr. Livingstone, Bishop Colenso, and Magnesium were three of the chief calls attractions at the late meeting of the British Association in Bath. Moscoe, at his lecture on light, in the theatre, had a table covered is seeimens of magnesium, crude, purified by distillation, and in wire, his jut his hand a lump of distilled metal, 9 lbs. in weight, and about a sis of a man's hat, he presented it to his audience as an evidence of progress made within a few years, before which magnesium was only semispure and in grains, and preserved as a rarity in a few laboratories.

The progress he world is indebted to Mr. Edward Sonstatt. About the beginning is a tasked the problem of the commercial production of wagnesium. After semistry, and the present of the Moyal Institution with a fine lump of the dissection of the semistry of the dissection of the semistry of the semistry of the dissection of the semistry of the

of 27 millimere evolves as much light as 7 stearine candles, of which the up to to symbol. If this light lasted one minute, '957 metre of wire, weighing '120 grammes, of 27 millimer very stear of the laster. In order to produce a light equal to 74 stearine candles, burning for light, whereby about 20 lbs. of stearine is consumed, '72 grammes (27) cos.) of magnetism would be required."

Include of magnesium wire were paid out by hand as they burned, were lighted, intentity the consumers of the include of the stear of the laster of magnesium wire were paid out by hand as they burned, were lighted, the stear of the lades' dresses and the bloom of their complexions were displayed as stearing the laster of the lades' dresses and the bloom of their complexions were displayed as stearing the laster. When at last the magnesium lamps were extinguished, the said delightful effect. When at last the magnesium lamps were extinguished, the said delightful effect. When at last the magnesium lamps were extinguished, the said delightful effect. When at last the magnesium lamps were extinguished, the said delightful effect. When at last the magnesium lamps were extinguished, the said delightful effect. When at last the magnesium lamps were extinguished, the said the said of the said the said of the said t

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Meetings of Public Companies.

EAST INDIA COAL COMPANY.

EAST INDIA COAL COMPANY.

An extraordinary general meeting of shareholdors was held at the offices of the company, Serjeants' Inn, on Monday,—Mr. J. WILDE in the chair. The notice convening the meeting having been read, the report of the directors (which has already appeared in the Journal) was taken as read. The Chareman said the board of directors were at length able to place before the proprietors the accounts for the past four years. During the first three of those years the company was not so successful, and especially in 1862, when there was a heavy loss, but that was from various causes. During last year, however, there was a predict of more than 20001, which, under the circumstances (there having been a bad fire, which caused a very considerable loss), was an encouraging fact; and, with additional capital, things would progress much more satisfactorily. They had had from their manager a clear and able report (which appeared in the Journal of Nov. 5), in which it was shown that with sufficient capital at their command there were no reasons why this company should not be at least accond only to the Bengal Company. The chief object of the present meeting was to obtain the assent of the shareholders to the raising of additional capital. It was proposed that the capital should be increased by a sum not exceeding 20,0001, in 2000 shares, the observance of 104. each, to bear a preferential interest out of profits of 19 ccent. per annum. Owing to the present high rate of interest, the directors did not wish the shareholders to take a larger amount than 2000 shares, with 12, paid up—that would put the directors in a position to enable them to borrow money upon debentures, if not now, at any rate in a few months hence, when the money market became easier, and in the meantime they could get advances from the bank, because the unput portion of those preference shares would afford a sufficient security. They were much in want of money, and it was absolutely necessary that money should be sent out immediately to Indi

And the state of t

present favourable prospects of the mine, and taking into consideration what had been carned since the last meeting, and that it was probable the costs for the future would not exceed 3001, per month, it did not seem too much to hope that no further call would be required. (Hear, hear.) The cost of the operations of the past twelve months could be required. (Hear, hear.) The cost of the operations of the past twelve months could be required. (Hear, hear.) The cost of the operations of the past twelve months could be required. (Hear, hear.) The cost of the operations of the past twelve months could be required and interest of the past twelve months could be required and interest of the content of the co

WEST WHEAL VOR MINING COMPANY.

west when the sear.)—The proceedings then terminated.

West wheat Vor Mining Company.

A general meeting of shareholders was held at the offices of the company, Austinfriars, on Monday,—Mr. John Schoffeld in the chair.

Mr. J. H. Mugchison (secretary) read the notice calling the meeting.

A statement of accounts, made up to the end of September, was submitted, which (after paying for the 50-in. engine) showed a balance of assets over liabilities of 1150/4. 138.

The report of the agent was read, as follows:—

Nov. 18.—1 beg to hand you the following report of this mine, which is situated in the parish of Breage, and bounded on the north and east by the celebrated Great Wheal Voranard the could and east by the Great Wheal Fortune. Since last meeting we have contended the could and east by the Great Wheal Fortune. Since last meeting we have contended the could be such as the country of the count

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division of the debit cost, and 2s. to be appropriated to the future working of the mine.

—The committee of management were unanimously re-elected.

The Craumars said the next object of the meeting was to appoint a secretary in the room of Mr. Dunsford, to whose lamented decase he (the Chairman) had stready re-ferred. But before proceeding to the counterwant in of that question, he wished to obtain the approval of the shareholders of the course which, upon bit recommendation, the committee had taken as soon as they became aware that the office of secretary had become vacant. The committee at once met, and passed a resolution that the pursar should make application to the representatives of the late Mr. Dunsford to hand over the leases, books, &c., of the company. The application was made, and the leases, books, &c., were handed over. — A resolution was unanismously passed approving the action of the committee. ——The Cuainaran said the next question was the appointment of a sceretary, and the committee were unanimous in recommending that Mr. J. H. Mucrisson should be appointed to the vacant office. They believed that in Mr. Murchison they would find an able secretary—one that would efficiently discharge the duties of the office, and do his utmost to promote the welfare of the charachoiders.

Upon the proposition of the Chariman for the very juicid manner in which he had explained the position and prospects of the mine, and for his able and course of the committee were a total order. — Mr. A. Richarma proposed a vote of thanks to the Chairman for the very juicid manner in which he had explained the position and prospects of the mine, and for his able and course of the committee were an explained to the vacant office. The Wallandar of the committee were the committee were the sound of the chairman for the very juicid manner in which he had explained the position and prospects of the mine, and for his able and course and carried unanimously.

The Chariman having appropriately acknowledged the commitment, said that

Isous conduct in the chair.—Alt, historical sections of the compilment, said that it would and carried unanimously.

The Chairman having appropriately scknowledged the compilment, said that it would continue to be his anxious desire to do all that lay in his power to promote the best interests of the shareholders. In doing so, the interest of no individual would be so advanced as that of his own, and probably that was the most substantial guarantee he could offer that his efforts in that direction would be unremitting; and if they proved as successful as they would unquestionably be unremitting, there would yet be a fair day for Wheal Arthur.—The proceedings then terminated.

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING.

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING. There has been more activity in the Mining Share Market during the past week, and a moderate amount of business appears to have been transacted. In East Loyell, Great Laxer, Great Wheal Vor, East Grenville, and a few others, there have been extensive desilings; and there is reason to hope that a more steady and satisfactory market will follow, as the Bank rate of discount is easier, and the standard for copper ore has advanced.

Where Serons are being sought for at buyers' prices, which is under the quoted figures of the day.—West Serons continue quiet at present market prices.—Cliptones have been largely dealt in, and prices have advanced.—East Bassers command attention, and buyers found at improved rates.—Nangles are in better request, and slightly improved in price.—East Carn Breas have changed hands at fair market figures.—Westal Bassers are quiet at quoted prices.—Nouth Bassers and Wheal Buller are dull at present figures.—Throctorfs are not quite so active, but sought for at mominal rates.—East Grenvilles have shared largely in the transactions of the week, but prices have fluctuated.—Wheal Laxers have been in better domand, and slightly improved.—Great Laxers have been largely dealt in, and a great number changed hands at advanced rates, with a strong tendency to further improvement.—North Treekernys are enquired for at nominal gures.—North Roskears have been in better request.—Chopytes are remarkably quiet at present quotations.—South Conductors are dealt in at nominal grates.—North Suepherends have been rather freely dealt in, but left off weeker.—Wheal Kitty (St. Agnes) have changed hands, and been sought for at buyers' prices.

request.—Unorty are remarkably quiet at present quotations.—South Conductions are dealt in at nominal rates.—North Shephelds have been rather freely dealt in, but prices.

Hallenberalles are being enquired for at buyers' prices. Great Wheal Buy and East Rosewarks are more than ordinarily quiet. Mentworkin Consols have been freely dealt, in, but prices have factuated. West Chiveron and Chiverton and the remaining the prices are dealth of the changed hands, and been sought for at buyers' prices.

Hallenberalles are being enquired for at buyers' prices. Great Wheal Buy and East Rosewarks are more than ordinarily quiet. Mentworkin Consols have been freely dealt, in, but prices have water. Chiveron and Chiverton and Chiverton at present quotations. East Wheal Lovells have been daily dealt in, and a large number changed bands; prices have varied, but there is a strong tendency to greater improvement. Great East Lovells are also enquired for at nominal prices. East Vors have been indemand, but prices have varied. Great Wheal Wheal Mentals have been dealt largely in the transactions of the week, and although they slightly varied left off firm. Stringer Wheal Merals have been in request. New Rosewarkes have been quiet. Providence and Margara are being sought for at minimum rates. East Canadons have been irruly dealt in, but prices have varied. Merke Vallets have been prices. Trelawn's and Margara for firmer. West Canadons are offered at lower prices. Trelawn's and Margara for firmer. West Canadons are offered at lower prices. Trelawn's and Margara for firmer. West Canadons are offered at lower prices. Trelawn's and Margara for firmer west can be been freely dealt in, but a reaction appears to have since taken place, being more freely offered. Wireau Creators and the strength of the consequence of passing them to the great the support:—The caunter, in the 70 fm. level east, is worth 51. per fm. The 70 ms. level east, on the south lode, is porducing saving work.

Wheal Pan,—The operations here are of a satisfactory charac

sale of tin for the last quarter amounted to 603!. The current three months sale is likely to be increased.

Where Creator.—At the shaft, which is down about 8 fms. under the 96, there is a large and promising tode, which at present is not very productive. The 96 west is in a large lode, yielding from 8 to 4 tons per fm., and presents improving appearances. Important discoveries are anticipated as this end approaches the western cross-course, which is about 15 fms. sheed, and in the upper levels large deposits of ore were found both east and west of the cross-course. There is a good run of ore ground in the winze sunk in bottom of the 84 east, and a pitch in back of the same level, yielding 3 tons of ore per fm. each. The sale last week realised upwards of 660!. The other operations which are being carried on, and the general prospects of the mine, are far more encouraging for the current quarter than the past. At Nxw Birch Tos And Viripse. Cossols there are several points which have improved during the past week, and the mine generally is looking far better than for some time past. The next sampling of this expected to be larger, and a greater amount of profits on the workings for the next quarter.—Davos Gillax Maria: The operations are progressing rapidly and satisfactorily, and the new shaft will be down to the present adit in about three weeks, when it is intended to sink on the course of the newly-discovered lode, the development of which is expected to result in great discoveries.—Nourin Davos: The operations here continue of the most satisfactory and encourging character, and it only requires time to bring the mins into a good profitable and paying property. The several levels and productive points are yielding increased quantities of lead. The amounts in future may be estimated at full 40 tons per mouth, which will leave a very good profit.

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The several levels and productive points are yielding increased quantities of lead. The samplings in future may be estimated at full 40 tons per month, which will leave a very good profit.

Maddin.—Many a rich mine has been left undiscovered for the want of a little patience and forebearance, but it cannot be said that either of the above virtues has been neglected here; and it, therefore, becomes gratifying, from the perseverance which has been manifest here for a series of years, to find a great probability of the present proprietary becoming the possessors of a rich and valuable mine. In driving the 70, cast of the sump, they have made a very important discovery; the lode is 2½ feet wide, and yielding large rocks of rich grey and yellow copper ore, from 2½ to 3 cwts, in a body. They are now opening by the side of the lode to facilitate the removal of the whole, and pressing on the end to ascertain the full value of this discovery.

Norm Curventon.—The general prospects of this mine are considered of a very satisfactory and encouraging character, and the more the several points of operation are pursued in the development of the lodes the more cheering are the appearance. Blende at present predominates, but as the ground is opened in depth lead becomes largely disseminated throughout the lodes, and taking into consideration these favourable changes, with the congeniality of the ground for lead, there is very little reason to apprehend results contrary to present prospects.

GREAT WHEAL METAL.—The prospects here continue of the same important character as last noticed. The lode at the castern shaft is still worth 151, per fm., but the water is on the increase. Arrangements are being made for drawing the same, to enable them to prove the lode deeper, when permanent and efficient machinery will be creded. The lode at the western shaft is of the same value, and other operations are going on satisfactorly.—East Wield Lovell.: The new shaft is rapidly approaching completion to the bottom of the diagonal shaft, at wh

of East Wheal Lovell second to none.

GREAT EAST LOVELK (Breage).—The engine, a 50-in. cylinder, is now on the mine, and the heaving in of the same will be shortly commenced. They have opened on five distinct and highly-promising lodes, and as soon as the necessary arrangements are completed they will resume operations on all.—Wheat Properts: Although they have not yet cut into the Trewavas lode, the branch or leader intersected by the cross-cut in the 40 is improving, which is a very cheering omen.—East You is reported to have improved in two or three points, but especially at the shaft, where they have some good work for tin.

The melancholy death of the late Mr. W. J. Dansford has thrown the mines connected with his office into competition; at least there appear to be efforts made by different parties to obtain the representation as secretaries of particular mines not yet arranged. W. W. M. Michael, of St. Michael's alleying an order to the afforts the property of the prop

ferent parties to obtain the representation as secretaries of particular mines not yet arranged. Mr. Wm. Michell, of St. Micheal's-alley, is an applicant for the Bryn Gwiog. Billins, and Long Rake Mines, and perhaps no man is better qualified for the position of manager or secretary; for, independent of his long experience as a mining agent, especially in Wales, his acquaintance with the above mines, as originator or purser in two, if not the whole, renders him doubly qualified for the official position desired; therefore, the shareholders in the respective mines will only be consulting their own interest by appointing Mr. Michell manager.

James Lane.

From Mr. Edward Cooke:—There has been a large business done this week in several of the most prominent mines, and it is the general impression that in the spring of the next year there will be greater buoyancy in the market than has been witnessed for a long period. According to present appearances, money will gradually become cheaper, owing, in a great measure, to the limited engagements (comparatively) of the commercial community, and the disinclination on the part of the public generally to enter into apeculative transactions during the past few months. The deciline in the rate of interest and discount invariably affects the price of metals most favourably. We may, therefore, look forward to the future with a great degree of confidence. To be forewarned is to be forewarned, according to an old adage, and those who take advantage of cheap markets naturally derive the benefit of rising markets. The present is a favourable opportunity for buying into a few good mines. There are many such that may be invested in with a great degree of cortainty of success. I do not mean that shares should be bought to-day and sold to-morrow, as that is merely a species of gambling. The largest profit would be made by buying now and holding until the early part of next year. In the meantime there will be a great advance in many mines, Among them I will mention Strinker Mixtal, Chiverkow Moon, North Chiverkow, East Lovelle, Great East Lovelle, the several mines in the Grylla district, Bircut Ton, Scotta Darnen, New Wheal Martina, East Wheal Vor, and others.

Fluctuations have taken place in East Lovelle. This is only a natural consequence when shares advance from St. to 161. In a few weeks. I still adhere to my former opinion with regard to this mine, and feel more confident than ever that it will uitimately become a permanent and valuable dividend property. The discovery of tin near the Heiston and Pentry road, alluded to in the agent's report, is most important, seeing that the lode can be wrought upon at such small cost. In add

cher rich parts of the mise, which now that the engine-shaft is nearly completed will soon be returning large quantities of tin, and those who hold their interest for a faw weeks will have so cause to regret it.—CRIVERTON MOON: In the Notices to Correspondents, in last Saturday's Journal, some remarks are made by a party signing hisself "Bhareholder, Liskcard." Seeing that the executive is the same as that of West Chiverton, and the business of the company is conducted at Liskcard, "Shareholder" (if he is a bons fide one) need not have resorted to the Journal for information. He states that nothing of importance has occurred since he bought his shares at a high price. I consider the erection and putting to work of an engine of such dimensions as that of a 70-in. originder, a very important object indeed. This has now been accomplished. The statement that it is contiguous to, and having the same lodes as, the famed West Chiverton is quite trace. With regard to the price he paid for shares, I consider that no criterion of the prospective value of the Chiverton Moor Mine: 151, per share was thought a very high price for West Chiverton some eighteen months since, but time has proved it to be a spiendid purchase to those who were fortunate enough to buy. I confess that I deemed it a high figure, and refused 50 shares (from the parties who purchased the mise) at 151, per share, when offered to me.

It is not at all improbable that CHIVERTON Moon shares will see a very much higher figure before the mine has been so long operated upon as West Chiverton has been. East WHEAL Von has improved at the engine-shalt, in which there are now rich stones of the. This sugurs well for the future of the mine, as there are great probabilities of its being the precursor to a rich deposit of tin. The shares have been largely dealt in, and parties in the locality of the mine have been buyers. This mine is an excellent speculation, and likely to become another important tin mine in the Great Vor district. The engine-shous is nearly comp

however, who have taken my ndvice, not to be frightened out of shares half to as to realise at any price which a depressed market would produce, already; advantage in it; as do also those who, at my suggestion, bought when price present. Unfortunately for those who are obliged to sell, but fortunately for are disposed to buy, shares in many mines making large profits, and the advancing towards what will I believe prove unusually large profits, are still at very low prices. Of these I would especially recommend, for either at very low prices. Of these I would especially recommend, for either permanent investment, the GREAT LAXEN, which continue to rise in price; the or a most his since they were selling at 15 to 16; they have gradually read and they will, I have no doubt, be at 26 within four or five months from this is, about the same time next year as they were this year selling at 4%. SOUTH CHIVERTON, in which the operations are being carried on very satisfact will soon, I have no doubt, bring them on to a rich lode, the ground becomes more congenial forglead as they drive south; I repeat what I have many time said, that before long this will become a mine of great profit. The Norma Clis also progressing satisfactorily; Shepherds lode, into which it was last we they had just out at the 20, has been out through 12 fit, and is, as was said we while in sinking the shaft below they have discovered a branch of break in richer in quality than any yet seen; and to complete their agreeable common they state that they shall next week sample as much silver-lead ore and blend realise upwards of 400? The East Laxer should certainly find a place in that may she confidently recommended to those who are disposed to take part, that may be confidently recommended to these who are disposed to take part, that may be confidently recommended to have who are disposed to take part, that may be confidently recommended who are subsposed to take part.

FOREIGN MINING AND METALLURGY.

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Mining Correspondence.

BRITISH MINES.

BEDOL-AUR.—Now. 23: The 70 end, driving north-east, is poor, the vein being much cramped, producing but little lead. We have taken four men from the winze to drive on the branch we cut a month ago, and mistook for the Billigwyn vein; we have driven about 7 ft., the branch being 5 ft. wide, composed of spar, chirks, and dufts, with a little lead, but not enough to save. The winze sinking below the 70 fm. level is much the same, yielding some good ore.

BEDFORD CONSOLS.—Capt. Mitchell, Nov. 24: In the middle adit level cross-cut north the ground is harder for driving, being mixed with spar, and a great deal of water is coming down through a flasure from the back of the end. There is no change to notice in the cross-cut south since leat report.

BEDFORD UNITED.—James Phillips, Nov. 23: The two stopes in back of the 120 west continue to produce 3 tons each of ore per fm. The stopes in back of the 118 west produce 4½, 3, and 2½ tons of ore per fathom, and the stope in that level east will yield 3 tons of ore per fm. In the 103 west we are at present driving by the side of the lode; when last taken down it was 2½ ft. wide, worth 2½ tons of ore per fm. The stopes in back of this level, two in number, yield 2½ tons each of ore per fm. The stope in back of this level, two in his level is yielding 2 tons, and the stope in the 47 and 35 are each yielding 2 tons of ore per fm. The ground in the 80 and 70 cross-cuts continues favourable for driving. The lode in the 68 cast is without any change to notice. The lode in the stopes in back of this level is yielding 2 tons, and the stopes in the 47 and 35 are each yielding 2 tons of ore per fm. We continue to sink by the side of the lode at the north engine-shaft. There is no alteration in the 62 cast.

BOSCAWEN.—John Edwards, Richard Giles, Nov. 19: The lode in the 80, driving west of Hunter's shaft, is 1 foot wide, unproductive. The lode in the 80, driving west of Hunter's shaft, is 1 foot wide, unproductive. The lode in the 80, driving east of Hunter's shaft, use 16 in the 16

having been met with. In a short time we shall get under the winze in the 20, in which there is a good lode of ore. Nothing new in any other part of the mine since my last report.

BULLER AND BASSET UNITED.—J. Rule, Nov. 23: In the 80 fathom level, on south lode, the lode is large, and of a promising character, composed of copper, mundle, peach, and quartz. It has improved since last reported, and there are strong indications of further improvements at hand. The 80 fm, level cross-cut north is progressing favourably. In the 60 fm, level west, on engine lode, the lode is 3 ft. wide, and is producing good ith work. Driving at 40s. per fm.

CAMBRIAN (Gold).—T. Martin, W. Pascoe, Nov. 22: In No. 2 adit the lode still continues large, regular, and well defined: It is now nearly under the A shaft, and we hope will be holed shortly.—No. 2 A Shaft: Here the sinking is going on regularly upon a large and promising lode, which always shows a fair sample of gold upon washing.—No. 2 B shaft: The two branches mentioned in our last have now come together, and going down in our very large lode, producing stones of ore, carrying specks of visible gold, as mentioned by us in our report of the 8th inst. We have forwarded to the office a small box of the lode, showing visible gold. In the now diagonal shaft, east of No. 2 B shaft, the water is so quick that but little progress has been make in sinking. As soon as No. A shaft is communicated with the level below the water-wheel will be set to work to drain this shaft; the lode is of a kindly promising character. In the cross-cut north at No. 6 several small branches have been cut, but no lode of value has yet been met with. At the Weilington and North Vigra Mines there is no alteration to note. CAPE CORNWALL.—Ralph P. Goldsworthy, Nov. 23: We have forked the water 11 fms. below the 40, and from appearances we think the next level will be the 52, making a 12-fm. lift, at which point we shall put in a elstern, and fais plunger-bottom when we have completed the lift to that level we

about 11 flum of productive process of course were cite shaft. The stopic to twelve this level. The stopic to back of the 10 has, on the whole, rather improved, and is worth his level. The stopic to back of the 10 has, on the whole, rather improved, and is worth his level. The stopic to back of the 10 has, on the whole, rather improved, and is worth his contributed by an of the producting and classes of the 70 has an office of the 10 has an office of the 10

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worth 1 ton of ore, or 71, per fm. In the 45 east the lode is from 3 to 4 fset wide, consisting of mundle, peach, flockan, and a little ore. In Williams's cross-cut north, in the 88, west of Hitchins's shaft, the ground is less favourable for driving, being harder.

— J. Goldsworthy, Nov. 23: I beg to inform you that at Homerabam's shaft, in the 130 east, the middle, or ore-bearing part of the lode has been cut [into 6½ feet; it appears the north wall is not far off the lode, and is composed of capel, peach, quartz, prisa, and mundle, and producing saving work for copper ore of good quality. When a part of the lode is taken down which is now standing east of the cross-cut a sample of it will be taken, the result of which will be immediately forwarded; the character and prospects of the lode are such as to lead as to think we are not far off a good lode. The driving of the 130 cross-cut will be continued north for the intersection of the north lode, seen in the upper levels. No other change.

— J. Goldsworthy, Nov. 24: In the 130 each there has been no lode taken down since last reported. We hope to commence taking down the lode to-morrow night.

— J. Goldsworthy, Nov. 25: Telegram: In the 130 no lode has been taken down; it will be taken down to-morrow.

presents on the local are such as for the local and to think we are not for of a good lock. The driving of the 130 cross-cut will be continued north for the intersection of the north device of the local and local and local and late reported. We hope to commence taking down the local commonwe right.

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usual, and can be stopped at any notice.—Hill Brothers Shaft: The cross-cut in the 73 fathom level is now in 14 fathoms 4 feet from the shaft, the ground containing large deposits of spar, and water flowing freely therefrom. There is no alteration on the tin idde to notice in the past week.

GREAT WHEAL BUSY.—John Edwards, J. Petherick, J. Tredionick, C. Rawden, Nov. 19: Harvey's engine-shaft is still sinking in the elvan. We have commenced to sink Fielding's shaft below the 140 fm. level. The lode in the 140 fm. level, driving west from No. 2 cross-cut, ts 3 feet wide, and worth about 12t, per fathom for tin: we purpose suspending this end for the present, and put the men to drive west from No. 1 cross-cut, and the subject of Harvey's engine-shaft. The lode in the 140, driving east inking below the 130, east of Harvey's engine-shaft. The lode in the 140, driving east from No. 1 cross-cut, east of Harvey's engine-shaft, is 4 ft. wide, worth 25t. per fathom. We have commenced to drive No. 3 cross-cut south, in the 140, driving west of Offord's shaft, to intersect the main part of the lode. The lode in the 140, driving west of Offord's shaft, to intersect the main part of the lode. The lode in the 140, driving west of Offord's shaft, to 34, ft. wide, and worth 301, per fathom for tin and copper or. The lode in the winze sinking below the 130, east of Harvey's engine-shaft, is 5 feet wide, worth about 15t, per fathom. The lode in No. 1 winze, sinking below the 130, east of Offord's shaft, is 3 ft. wide, worth 15t, per fathom for tin and copper ore. No lode taken down in the 130, driving cast of said shaft, is 3 ft. wide, worth 15t, per fathom for tin and copper ore. No lode taken down in the 130, driving east of said shaft, is 2 ft. wide, and worth 30. per fathom for tin. We have commenced to drive a cross-cut south in the 140, driving east of Offord's shaft, is 3 ft. wide, worth 15t, per fathom for tin. We have commenced to drive a cross-cut south in the 140 driving cast of Harvey's engine-shaft, to prove whether

to this time we have not seen enough of it to value. The 12, east of whim-shaft, is worth 10f. per fm. The winze sinking below this level is worth 3f. per fm.—Lance's Shaft: No lode has been taken down for the month. All other operations are progressing satisfactorily.

NEW CHIVERTON.—J. Trewartha, Nov. 19: In driving the cross-cut at the 50 we find the ground rather hard as we get off from the lode, which is a very common occurrence, but most likely the ground will soon ease, or become softer, especially as we get near the north lode; the ground appears to be a great deal softer upon the lodes than under them, which is a good indication of forming a firm and smooth footwall. In the 50, going west, the lode is 3 ft. wide, composed of soft spar, mundle, and spots of lead; this lode presents a very kindly appearance, and we expect will shortly prove productive to the east and west of shaft. In the 30 fm. level end, east of engine-shaft, the lode is 18 in. wide, yleiding I to nof good quality blende per fm., and good stones of lead. In the 20 fm. level cross-cut, driving south, no lode yet intersected. The two stopes in back of the 20 fm. level are worth 3f. per fm. each. The stope in bottom of the 10 fm. level is worth 7f. per fm.

NEW CORNISH.—J. Richards, Nov. 22: Latchley Consols: The driving of the 60, east of the engine-shaft, after temporary suspension, has been resumed; the lode is 3 feet wide, composed of an abundance of mundle, capel, and saving work of copper ore; and is spielding its usual quantity of ore -1-½ to np rafathom. The 40 has also been commenced, after having been stopped during the month of October; the lode here is large, 15 feet wide, composed of an abundance of mundle, capel, and saving work of copper ore; and is also very promising. A rise (Staddon's) has been put up in the back of the 40 fm., level 2 fm. 2 ft. 7 in., in which the lode is 7 fathoms is worth 1 ton of ore per fathom. In level 2 fathom is worth 1 ton of ore per fathom. In the 70 west, the lode is 4 feet wide, and is worth

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avourable.

PRINCE OF WALES,—W. Gifford, Nov. 22: At the 30, east of Watson's shave cut through the north lode, being full 5 ft. wide, composed of capel, peads with good atoms of black, grey, and yellow copper ore intermixed. have cut through the north today, seeing, and yellow copper ore intermixed. The quartz, with good stones of black, grey, and yellow copper ore intermixed saving some part of the lode for dressing; we shall commence driving east on south of this lode to-morrow. In the 30, west of Watson's shaft, we have driven north 8R-intersected two branches, being small, and composed of capels principally. We commence driving west on south lode, where we have had some good stones of yellows.

of this lode to-morrow. In the 30, west of watson's shall, we have have have the commence driving west on south lode, where we have had some good stones of yat commence driving west on south lode, where we have had some good stones of yat commence driving west on south lode, where we have had some good stones of yat copper ore.

PROSPER UNITED.—S. Lean, Wm. Millett, Nov. 23: The lode in the 70, we Hand's shaft, is discreted by a horse of killss, containing a little ore, but not suffice to value. We have taken down the lode at Hand's shaft, sinking under the 70; he is also discreted by two small cross-courses. The lode in the 60, west of Hand's had will produce 1 ton of ore per fm., with every prospect of further improvement, lode in the winze sinking below the late-mentioned shaft, will yield 2 tons of ore per fm. The lode in the winze sinking below this level is level will produce 2 tons of ore per fm. The in the 70 west, on the morth part, is 4 ft. wide, worth 61, per fm. for th. The lod the winze sinking below the 50, on this part, will produce 1½ ton of ore per fm. sampled on Tuesday last 330 tons of copper ore for one month.

PROVIDENCE MINES.—W. Hollow, Nov. 24: There is no change in the Stanfolde. The south branch in the 85 and 65 fm. levels, west of the cross-course, is a producing stones of tin, of a promising character.—Caunter Lode: The 65 ceast is well and the south branch in the 85 and 65 fm. levels, west of the cross-course, is a producing stones of tin, of a promising character.—Caunter Lode: The 65 ceast is well and the south branch in the 85 and 65 fm. levels, west of the cross-course, is a producing stones of tin, of a promising character.—Caunter Lode: The 65 ceast is well and the south branch in the 85 and 65 fm. levels, west of the cross-course, in standard the new south lode. In the cross-course such and, per fathom. The stope on the stones of tin, but it is not yet ent through to ascertain is a No. 1 stope, in the back of the 75, is worth 201, per fm. In the 55 there is no change the new

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RHEIDOL.—Nov. 19: Rhurraggus Engine-shaft: In the 12, driving west, on Gwalth-each lode, the lode is 2 ft. wide, composed of slate, spar, strings of lead and blende, and saving work for drassing. In the cross-out south we have cut the footwall of the lode, and have discontinued driving on ft, and pat the men to drive west on the course of the lode, which is 2 ft. wide, yielding 1 ton of blende per isthorn, with every appearance of improving.—Rhurruggus Lode: In the midway level west the lode is 1 ft. wide, of hard gooks and spar, with a vio of blende so in whice on the north wall; the ground in the level is much harder for driving.—Nantglass: In the 10 west the lode is 1 ft. wide, composed of slate, spar, and strings of lead occasionally.—Foxpath Cross-cut: The lode in let let us much of the same character as the lode in the old workings above, under which life; it is much of the same character as the lode in the old workings above, under which life view of the strings of lead or strong mixture of lead ore, good saving work for drassing: 1th sund of the same character as the lode in the old workings above, under which life is the lode of short of blande per fathom. ROARING WATER.—H. Thomas, Nov. 22: The stope, west of Grady's shaft, is roadened as mount of good copper ore; the lode is between 5 and 6 ft. wide, producing a few promising appearance. The stope, west of Bash's shaft, is also producing a fair quantity of ore of pretty good quality; the lode is 4 ft. wide, carrying a fine gossan and brown quartz. I have put three of the men from Gillman's shaft to strip a piece of ground north at the bottom of Bush's shaft, where I considered more lode was standing, and the result is there is a lode 2 feet wide, in whole ground, going west of the shaft north of the part sunk on containing gray and purple ore, gossan, and a small quantity of authors.—H. Shou on this as a very kindly lode, and should by all quantity of gulphate of barytes. I look on this as a very kindly lode, and should by all quantity of authors.—H.

of ground morth at the bottom of Bush's shart, where I considered more lode was standiss, and the result is there is a lode 2 feet wide, in whole ground, going west of the issaft morth of the part sunk on containing gray and purple ore, gossan, and a small quantity of sulphate of barytes. I look on this as a very kindly lode, and should by all quantity of sulphate of barytes. I look on this as a very kindly lode, and should by all quantity of sulphate of barytes. I look on this as a very kindly lode, and should by all canness be extended on.

ROBOUGH DOWN.—S. Paull, sen, Nov. 23: The ground in the 20, driving east contained to the course of the lode of several fathoms driving has been everything to constitute a tin lode of more than lode for several fathoms driving has been everything to constitute a tin lode of more than lode for several fathoms driving has been everything to constitute a tin lode of expels, peach, ordinary character, varying in size from 3\(\) to 5 ft. wide, composed of capels, peach, ordinary character, varying in size from 3\(\) to 5 ft. wide, composed of capels, peach, ordinary character, varying in size from 3\(\) to 5 ft. wide, composed of capels, peach, ordinary character, varying in size from 3\(\) to 5 ft. wide, composed of capels, peach of capels, peach of the lode in the cross-course now in the end that we shall have an image soon as we get clear of the cross-course now in the end that we shall have an image soon as we get clear of the cross-course now in the end that we shall have an image of stamps in full work, and shall proceed as fast as possible to get a pile of in for market of stamps in full work, and shall proceed as fast as possible to get a pile of in for market of stamps in full work, and shall proceed as fast as possible to get a pile of in for market of stamps in full work, and shall proceed as fast as possible to get and we have a fast shall proceed as fast possible to get a fast shall proceed as fast part and the fast shall proceed as fast shall proceed as fast s

for copper ore. In the state of the cross-course. In the deep adit level north the ground being easy, good progress is made.

SOUTH CARADON WHEAL HOOPER.—W. C. Cock, Nov. 19: I hope to have all the pitwork, &c., taken up from below the 62 by Thursday evening next, when we shall commence the new shaft, and use every means to get it down as quickly as possible. SOUTH CONDURROW.—J. Vivian, J. Vivian, Jun, Wm. Williams, Nov. 19: The eagine-shaft is now rather over 4 fms. below the 29 in the country rock; ground favourable for sinking. In the 29, east of said shaft, we have driven about 19 fms. through a pretty good lode, at which point we have intersected the cross-course, which is large and troublesome for getting through.—West Basset Lode: In the 29, west of Vivian's shaft, the lode is about 2½ ft. wide, composed of goesan, tin, and copper ore, worth about 15. per fathom; in the same level east it is composed principally of goesan, which is saving work for tin. In the 10, west of same shaft, the lode is 2½ ft. wide, a splendld goesan, and worth about 10, per fm. for tin; in the same level east it is about 1½ ft. wide, of goesan, and saving work for tin. In the adit, west of the same shaft, it is form 2½ to 3 ft. wide, of beautiful goesan. In the adit, east of new shaft, it is just the same as last reported. The stopes, cross-cuts, &c., are progressing favourably. We intend to sample a parcel of copper ore at two months from the last sampling, and as the water increases we shall be getting about some pretty good parcels of tin for sale. On the whole, our prospects are very favourable.

a parcel of copper or at two months from the last sampling, and as the water increases we shall be getting about some pretty good parcels of this for sale. On the whole, our prespects are very favourable.

SOUTH CRENVER.—E. Chegwin, Nov. 22: In the adit end, driving east and west of the cross-cut, on north lode, the lode is 6 inches wide, producing quartz, gossan, and stones of mundle; ground favourable for driving.

SOUTH DOLCOATH.—Wm. Roberts, Nov. 23: The lode in the flat-rod shaft continues 1½ ft. wide, producing 2 tons of ore per fm. In the 30 west a cross-course has been interaceted, and the lode has not been seen beyond that point. The 12 tons sampled to-day all came out of the shaft, and the tributers' cres turned out morelithan I expected, altogether (computed) 30 tons, with prospects looking favourable.

SOUTH EXMOUTH.—J. P. Nicholis, G. Maunder, Nov. 24: The ground in the engine-shaft, ainking below the 75 fm. level, is still favourable, and good progress is being made in sinking. The 75 ends are still in disordered ground, and the lode, consequently, poor. The lode in the winues, sinking in the bottom of the 45 is without alteration to notice since last reported. The rise in the back of the 45 is up 4 fms.; the lode will yield from 8 to 10 cwts. per fathom. The part of the lode being carried in the 30 end is not so productive as last reported, now yielding from 3 to 4 cwts. of lead per fathom. We are of opinion that the best part of the lode is standing to the west of the level, and, therefore, purpose driving a short cross-cut to prove it.

SOUTH FOXDALE.—M. Grose, Nov. 19: The appearance of the lode in the obttom end is holding well, and much the same as last reported. The ground in the cross-cut driving east from shaft is highly mineralised; I hope to report a favourable change here driving east from shaft is highly mineralised; I hope to report a favourable change here driving east from shaft is highly mineralised; I hope to report a favourable change here driving east from shaft is highly miner

reasing ore.

SOUTH HERODSFOOT.—R. Goldsworthy, Nov. 22: We have completed the cutting of the plat, and the men are now busily engaged in sinking the fork, which I hope they will accompilably the end of the month.

SOUTH LOVELL.—W. Chappell, Nov. 24: We are making good progress with our arrace operations for the erection of an engine, when the mine will be drained of the rater, and tin raised in paying quantities, as there is only about 13 fathoms of water to iraw out to enable us to sink on the course of the lode below the former workers. We have erected a carpenters' shop and saw-house, ready to put the roof on, and also opened pa good granite quarry within the sett, so that the cost of stone for the engine-house fills be comparatively small.

Watson's shaft, f capel, peach, ermixed. We genst on south wen north 8ft., cipally. We said atones of yell

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good working order, which has effected a saving of 30f. per month to the adventurers, and also canabled us to dress more of our tinstaff on the mine, which you will see from our fature returns.

WEST WHEAL TOLGUS.—Nov. 23: South Lode: Taylor's shaftmen are sinking Taylor's enjine-shaft below the 75; we are not carrying the lode, nor any part of it, as it is hardly north far enough to be in a line with the angle of the shaft, but in 2 or 3 fms. more sinking will its present underlie it will be in the line of the shaft. In the 75 cast we yesterday put the men to cut through the lode to ascertain its size and value; the lode and capel, or horse, is now 5 ft. wide, producing 2 tons of ore per fm.—The lode in the 75 west is 6 ft. wide, yielding 5 tons of ore per fm.—a good lode. In the 65 west the lode is 4 ft. wide, producing 2 tons of ore per fm. In the rise over the 55 west the lode is 4 ft. wide, producing 2 tons of ore per fm. The lode of the 50 west the lode is 4 ft. wide, producing 2 tons of ore per fm. The stope over the back of the 59 west and over the back of the 66 cast, are each yielding 2 tons of ore per fm. Provential of the first producing 1 ton of ore per fm. We have two stopes over the back of the 65, cast and west of rise, each stope yielding 3 tons of ore per fm. We have two stopes over the back of the 65, cast and west of rise, each stope yielding 3 tons of ore per fm. We have two stopes over the back of the 65, cast and west of rise, law the following bargsins were set:—The 96 cast, by six men, stent 5 fms., at 4/ per fm.; the lode is 4 ft. wide, with stones of ore. The 96 west, west of Walter's winze, by six men, stent 5 fms., at 4/. 5s, per fm.; the lode is 5 ft. wide, yielding 3½ tons of copper ore, worth 151, per fm. The stope in back of the 96 west, west of Walter's winze, by six men, stent 5 fms., at 4/. 5s, per fm.; the lode is 5 ft. wide, yielding 3½ tons of copper ore, worth 151, per fm. The stope in back of the 68 west, west of Walter's winze, by six men, stent 6 fms., at 4/. 5s, per f

water, and the raised in paying quantities, as these stonys about its automator water. The part of the stent, or cut through the cross-course at 51. The 48 east, by four men, stent at 33. per fm. The pitch in back of the 84, east of Oate's rise, by two men, 11. The pitch in back of the 84, east of Coate's rise, by two men, at 93. in filling and landing, for two months, by two men, at 84. per month. The lode shaft still maintains its size and character, boing 7 ft. wide, of a promising at WHEAL EDWARD.—G. Rowe, Nov. 19: The lode in the 61 west has in size, being 3 ft. wide, yielding some good saving work. We are also engaged the bottom of the 61, east from the engine-shaft, for the purpose of procurin level, which will throughly drain the western part of this mine nearly 70 fm all the various lodes in the sett, which can also be intersected by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of cextended either north or south as the nailyse of the contracted by means of the contracted by mea

FOREIGN MINES.

Don Pedro North del Rey Gold.—Capt. Thos. Treloar reports for Sept.:—The gold return amounted to 2337 oits., or 645 oits. more than that of the preceding month; indeed, it is the highest monthly return since Nov., 1863. The mine operations have progressed satisfactorily, the appearances have improved, and our hopes of success are thereby strengthened. Bawden's Mine is again looking well, and yielding well, and we been in a position to handle it effectually the produce from this point alone would, probably, now be 5000 oits. of gold per month. Branco's Mine is also looking well, and beginning to yield gold in such quantities as to indicate that we are approaching a gold centre or shoot. At Maquine we have so closed upon the place as to have ascertained, by the aspect of the jacotings formation, and the gold in the guilles, that the gold veins will be found from the middle of the valley southerly. Acting, upon this direction, we are sinking pits and cross-cutting, so as to expire this quarter systematically. The gold sample forwarded by the last gold troop was obtained for year systematically. The gold sample forwarded by the last gold troop was obtained for systematically. The gold sample forwarded by the last gold troop was obtained for continuous very wet, so wet that the water issuing from it amounts to about 50 cubic feet perminute. But, fortinately, Maquine admits of drainage by adits. The Prais has afforded this month 241 oits, of gold, being an increase of 85 oits, upon the previous month. Anglo-Brazillan Gold.—Capt. T. Treloar reports for Sept.:—The produce for September amounts to 395 oits. Although not quite so good for August, still, considering the very large proportion of rubbish and poor stone passed through the stamps, it is an encouraging return. But produce is not yet our object. The mine works are being carried on well, and in a manner that I feel confident will conduce to the future benefit of the company. At the deep adit, owing to the continued unfavourable nature of the grou

e whole, favourable.

Santa Barbara Gold.—Capt. Bryant, Pari, Oct. 12: Reduction Dehave been reintice on the 24th at 10 dut or the accident mentioned in my last. We been stamping very little stone of late, the water being slack; the wheels have going but slowly, but this, I hope, is now over, we had protty much rain last night there is every appearance of the wet season having set in.—Mine: There is see anything new to report, the lode in the shaft and stopes continues about the usual and is still going very fait; the stone has the usual appearance. In No. 2, or bottoms in the addt level, the lode continues same size as last reported, and towar footwall the stone has a good appearance. From a subsequent letter, dated Oct. 14. is nothing new to report since the 12th; the weather is again dry, wheels going slot is nothing new to report since the 12th; the weather is again dry, wheels going slow, but this cannot last long. Every effort is made to get as much stone as possible quarried at the least expense, at the same time due regard is paid to the permanent working of the mine. I cannot detect any difference in the quality of the stone, which I believe to be equal to what we have been previously stampling, at the same time I regret not being able to report the exa-t produce, which would be more satisfactory to you and me; this, I fear, cannot be done until we get another amalgamation barre it to work, the completion of which is being pushed forward as fast as possible, after which we must put in new saxes and canoes. Then, and not until then, shall we be able to keep the sand from the stone from both parts of the mine separate, and ascertain the exact produce of the stone from each part. The quantity of stone is increasing, and I expect to get quite as much as our present stamps can reduce with a full stream of water, and I have no doubt but that our next quarter's returns will show a considerable increase over anything we have yet resmitted.

as our present stamps can reduce with a full stream of water, and I have to whave that our next quarter's returns will show a considerable increase over anything we have yet remitted.

Val Toppa.—T. Roberts, Nov. 18: We are now working 205 of the old native nills; average amalgam per day about 430 grammes, and, providing the present quantity of water continues, we hope by the end of this month to have over 11,000 grammes of amalgam. The lode in the end of Marmo Rossa level continues to widen, and yleids good ore. All the other points throughout the mine are most satisfactory, and producing their usual quantity of auriforous quartz. At the establishment we are very bustly engaged in the necessary works for the outlet of water from the intended wheel-plits, the laying of the walls for same, and preparing the water-courses, &co.

Vallanzasca.—T. Roberts, Nov. 19: The lode in the bottom of the Cara Vecchia continues to be good. The stopes now being worked in Plazza Nuova continues also to be good. At the Sassa Nero the lode is improved. With the ore from the above-named points, and a little from the Mazzeria workings, we are returning from the two utilis and 30 native mills about 700 grammes of amalgam per day, and calculate to have over 15,000 grammes of samalgam by the end of this month. The carriage of the ore from the bottom of Fornsletti shoot to the establishment now costs only 30 centimes per quintal. At the establishment everything possible is being done towards preparing for the new machinery so long overdue from England.

Nova Scotta Land and Gold. They have already cut several lodes on the newly-sequired Davis property (which the agent considers a most valuable acquisition to the company), "one of them, the Doull lode, 20 in. thick; tanother Davis lode, a group of three lodes, equal to 20 in. thick; the filicial lode, shout 18 in. thick, besides several smaller ones, some of the foregoing showing good sights of gold,

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Join 135, of the York 6000 of the the tent went are in derly here is easpert; the infrient to pick hold main casta will

others traces only. We have parties of men on all these lodes, and I am fully confident that when we get the ground opened, which will not take very long, I shall be able to keep both mills emplied with quartz, and continually running night and day. We have now over 100 tons of quartz on band, which will be largely increased by the time the mills are both ready for use, which the contractors have engaged shall be completed by the end of the present month."

mow over 100 tons of quartz on band, which will be largely increased by the time the mills are both ready for use, which the contractors have engaged shall be completed by the end of the present month."

CAPE COPPER.—October 19: Our latest advices from the mines report averything going on astisfactorily, and that the riding of ore to the Bay was being prosecuted vigorocally. Mr. Pillians, writing us from Hondekila, under date of Oct. 7, reports 800 tons of ere on the banch, which would be shortly considerably increased the addition of the large quantity on the way down fram the Ockiep and Spectakel Mines; under these circumstances, we thought it desirable to engage another vessel, and we have effected a charter with Capt. Hinckiley, of the first-class barque Hattings, 425 tons register, to lead a carge of copper ore, from Hondekila Bay to Swansea. The Hercules had been unfortunate in the westher of Hondekila, up to Oct. 7, a swell having set on the bar, which prevented the boats working, but we have little doubt she is now nearly ready for sea. The superintendent writes from Namaqualand, under date Oct. 8:—Ookiep Mine: The inspection of this mine has been a most satisfactory one, as not only are all the works laid out with judgment, but the explorations in depth have revealed a finer mass of ore than the mine has ever shown, most of the ends are still opening fresh orey ground. The men sent from England give great satisfaction to Capt. The six lads have arrived and been put to work, and I have no doubt they will prove exceedingly useful. The lavels driving into the large indication at Nabapeep have not yet revealed any orey ground, and must yet be pushed forward for two or three months before they can come under the large creats that appear at the surface. The levels driving north and south from shaft, on small indication, have produced a fair quantity of sulphiles, which, when dressed, will probably give about 200 tons of ore, averaging 28 per cent., so that aiready the whole cost of the works carrying on has

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[EXTRACTS FROM OUR CORRESPONDED.]

GOLD IN WALES.—Castell Carn Dochan returned, for the week ending Nov. 22, 3 css. 8 dwts. 16 grs. of Gold, from 21 cwts. of quartz.

EAST RUSSELL was visited on Wednesday by a large number of mine sgents, who went underground to see the lode in the 130 fm. level. Five out of six expressed the opinion that a finer lode was never seen. It is much larger and much better than at the same distance from the shaft in the level above. Some distance has to be driven before they reach the rich course of ore which was found after the elvan had been passed. East Russell, as predicted by Mr. Josiah Ritichins, will be a great mine. Shareholders had better be careful how they are guided by brokers-sgents' reports.

SOUTH CARADON.—We are glad to hear this property is steadily improving. Rome three account-days since the manager expressed the pleasure he felt in stating they had charged up all the heavy amounts for new materials, and in future their monthly cost would be lesseened—a tangible proof of this was given in raising the dividend from 61. to 71., leaving a balance in favour of the mine of about 2700f. At the meeting in September last there was an expectation of 11. bonus being given, instead of which the balance was raised to 3300f.; it is, therefore, taken for granted that at the meeting in September last there was an expectation of 12. bonus being given, instead of which the balance was raised to 3300f.; it is, therefore, taken for granted that at the meeting in September last there was an expectation of 12. bonus being given, instead of which the balance was raised to 3000f.; it is, therefore, taken for granted that at the meeting in September last there was an expectation of 12. bonus being given, instead of which the balance was raised to 3000f.; it is, therefore, taken for granted that at the meeting in September last there was an expectation of 12. bonus being given in raising the dividend from 60. more.

TRELYNO CONSOLS.—The longer is the manager likely to be

TRELYON CONSOLS.—The long-expected north and south four his been cut in the 20 fm. level end west, and is worth from 10. to 124, per fathom.

DALE.—The shareholders in this mine seem likely to be soon rewarded for their patience and perseverance. The Pipe vein is yielding increasing quantities of lead and blende, and the rapid progress which the mine has made since the new shaff communicated with the Pipe vein will be seen from the following returns:—Sales in June, July, and August, 1864, 5171. 5s. 6d.; sales in September, 4651. 4ls. 6d.; sales for October, 4961. 3s. 3d.; sales in November (computed), 7001. This mine is close to, and exactly like, the celebrated Ecton Mine, from which the Duke of Devonshire derived a profit of two millions sterling.

oft of two militons sterling.

Great East Lovell,—The erection of the 50-inch cylinder engine is

GREAT EAST LOVELL.—The erection of the 50-inch cylinder engine is nearly completed, and operations will be immediately commenced upon the various lodes which are at present so productive in East Wheat Lovell.

Connwall Great Consols.—The lode which we lately referred to, and which for the last 50 years has been such a source of mystery, from the complete failure of all attempts to discover it outside the precincts of Calstock parish church-yard, until within the last few months, has been intersected at the shaft sunk at this mine, and within 16 fathoms only from surface, has proved to be what everyone acquainted with the district expected it would turn out—a splendid champion lode, composed of job yellow and black copper, in a soft peach and gossan, increasing in richness every foot they drive through it.

South Graylla.—The constanting of the contraction of the contraction of the contraction of the contraction.

every foot they drive through it.

SOUTH GRYLLS.—The agent writes, on Tuesday, that "in taking down
the lode to-day it yielded some rich copper ore, and hope it will continue to improve.
think we are driving over a piece of very valuable mineral ground, which will be laid
onen at deser levels."

the lost co-cay it yetsees some rear copper over, and note it will contain to trimprove. It think we are driving over a piece of every valuable mineral ground, which will be laid open at deeper levels."

Roaring Water.—This mine continues to improve as the operations extend. During the past week an additional discovery has been made north of Bush's shaft: a lode has been cut through 2 ft. wide, in whole ground, going west of the shaft, north of the part sunk on, containing grey and purple ore, gossan, and a small quantity of sulphate of barytes. This speaks well for frish mining in this district, as these discoveries indicate the unmistakable probabilities of a rich mine.

PENDEEN CONSOLS.—A great improvement has lately taken place in this mine. At about 4 fathoms below the 94, where the lode is poor, the men noticed a vein of tin going through the granite; on following it they reached, at 5 feet from the lode, a bunch of tin, so rich that the men are working it on tribute at is. 6d. in 11. At the meeting the agents said they could pay the expenses of the mine, even at the present low price of tin; but should this rich bunch of tin prove to be a large one, they will immediately work at a profit. A good demand has sprung up for the shares, but there are no sellers at quoted prices.

NORTH JANE.—Considerable improvements have taken place. At the general meeting, just held, a credit balance of 3321, was carried forward, and there is 1401, worth of minerals sold to come to credit of next account. This property adjoins Wheal Jane, which is paying dividends. Shares should not be lost sight of. There are several mines selling for 20,0004, and 30,0004, not holding out so good prospects.

GREAT DARREN.—The ore ground in the back of the bottom level in Great Darren is yielding a very satisfactory return. The stopes extending over the driving show an excellent course of ore for a great width of lode, and every appearance indicates that the returns will be good, and the profits considerable. Had this ore been driven into a

Iriven into as soon as the shaft was down there is no doubt that the sailes of ore would have been greatly increased quite two months ago; unfortunately, the level was driver for far to the south for the ore, which has occasioned some loss of time in getting the mine into a profitable state of working.

WHEAL TRANNACK.—In the 40 fm. level end, going east, the lode is maproving, producing some atones of grey ore; in the shaft the lode is from 18 in. to 2 ft. wide, producing saving work for tin, and looking very premising for an improve-

ment shortly.

The HAVAN SILVER-LEAD MINES are opening out remarkably well, and every point in operation is leaving a fair profit. Both the sales and the reserves are being regularly and considerably increased. Another level, the 20, will be commenced in the ore ground in about a month hence, and early next year the returns will be doubled, when it may be fairly expected the mine will enter the Dividend List.

EAST ABRAHAM.—This mine has been inspected by Capt. H. James, who reports, under date Nov. 21, that, taking all things into consideration, he thinks East Abraham a piece of mining ground of more than ordinary value.

East Wheal Vor.—Since the great improvements in the adjoining mine, Great Wheal Vor, much attention has been given to East Wheal Vor, which recently has materially improved. The stratification is similar in character to that of Great Wheal Vor, and is situated in the same basin of killas; therefore, it is not improbable that another rich mine will be opened when the various points at present in operation are developed. Already tin has been discovered in the shaft, in character precisely similar to that in its rich reachbour.

to that in its rich neighbour.

EAST WHEAL LOVEIL.—During the week this mine has considerably improved at various points, and has attracted great attention from parties in the district. The engine-shaft on the north lode, which has already reached the rich tin ground, will be completed by the beginning of Dec. It will be seen by the agents' report, which appears in another column, that the tin ground so frequently reported upon will soon be taken away at 1s. 6d. in 1l., thus showing its great value. It has occupied a long time to make this new shaft, and fix in the proper working gear, but it was undertaken at the instance of Capt. Charles Thomas, and when completed the returns, which have been temporarily decreased, will be largely and permanently augmented. The south lode has improved in value from 60l. to 90l. per fathom. The Turnpike shaft lode has materia in driving west, which is a point of considerable importance. The Turnpike shaft lode has materially improved

WEATHER PREDICTIONS.

WEATHER PREDICTIONS.

Sir.—M. De la Drome, of Paris, in writing to the French papers, states that the coasts of England and France are to be ravaged by one of the most fearful storms that has occurred during the present century, and that this disaster is to occur between Nov. 28 and Dec. 3. As this statement has appeared in the Times, the readers of the Journal would like to know something about this threatened calamity. Well; the order of the weather will be as follows, as far as England is concerned:—Strong winds and gales will occur on or about the following dates—On the 29th inst., these winds will be of one day's duration; again, from the 3d to the 6th Dec., also on the 8th, and from the 10th to the 13th: in fact, we shall have some very rough weather next month. I have been particular as to giving the dates, for the information of our maritime interests.

26. Tarogmorton-street, Nov. 22. George Shepherd, C.E.

rogmorton-street, Nov. 22. GEORGE SHEPHERD, C.E., Author of the "Climate of Englan

SALE OF MINE SHARES BY AUCTION.—On Thursday Mr. T. P. Thomas held his periodical sale at Garraway's, which was well attended, and a very large amount of stock was sold. For many of the shares good prices were obtained, while others sold at low rates; but, for all, considerable competition was evinced.

IRON MANUFACTURE.—A monster bar of iron was drawn a few days noe at Nicholis, Williams, and Co.'s Steam Forge Works, Tavistock. The bar was 7 ft. long and 11 in. square, the hammer used to draw it striking a blow of 35 tons.

MUNTZ, E. G., METAL BROKER, 32, PARADISE STREET, BIRMINGHAM.

The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-LONDON, Nov. 25, 1864. | Copper | C 0id (Exchange)..., 91 0 0-
Inos. Per Ton.

Bars Weish, in London. 7 16 0-
Ditto, to arrive...... 7 15 0-7 17 6

Nali rots..... 8 15 0-
Stafford. in London 9 7 6-10 10 0

Bars ditto 9 0 0-9 10 0

Bars ditto 10 0-11 0 0

Sheets, single.... 11 0 0-12 0 0

Fig No. 1, in Wales... 4 10 0-
Bars, common, ditto... 7 0 0-7 10 0

Do., merch, Tyne or Tees 7 15 0-8 0 0

Ditto, railway, in Wales 7 0 0-7 10 0

Ditto, Tailway, in Wales 7 0 0-7 10 0

Ditto, Berts, common, ditto... 11 0 0
To arrive.... 11 10 0
To arrive.... 11 10 0
Railway chars... 5 10 0-5 15 0
Railway chairs... 5 10 0-5 15 0

" spikes... 11 0 0-12 0 0 In sheets 28 0 0-TIN-PLATES.*

IC Charceal, 1st qua. p. bx. 1 8 0-1 11
IX Ditto 1st quality 11 4 0-1 17
IC Ditto 2d quality 1 6 0-1 8
IX Ditto 2d quality 11 2 0-1 14
IC Coke 1 1 2 0-1 15
IX Ditto. 1 1 2 0-1 14
Coke 1 1 2 0-1 14 | Table | Tabl

REMARKS.—The continued case in the Money Market has caused the directors of the Bank of England, at their meeting on Thursday last, again to lower the rate of discount, to 7 per cent. This movement had been fully expected, and, indeed, it could hardly, with any propriety, have been delayed any longer. We may now fairly hope that this reduction will soon be followed by even lower rates, and that by the close of the year we shall again see money at its average rate of interest. The present reduction will, no doubt, be followed by a corresponding improvement in commercial affairs, and by a restoration of confidence, which has been so severely shaken by the late failures, as we may now reasonably consider the crisis, which has extended over so unusually long a period, is over, and may begin to look forward to a brighter and more cheering prospect than has been exhibited in the commercial world for some time. This movement will also be very beneficial to the Metal Market generally, and will greatly tend to an improvement in prices in some metals, and will be calculated to induce buyers to give out orders which have been kept back during the late depression; and as accounts from India are still continuing favourable, we may hope that a healthy and flourishing trade in metals will soon spring up, which may in some measure compensate for the great lack of business which has been manifested in the metal trade for some months past.

the great lack of business which has been manifested in the metal trade for some months past.

COPPER.—The market still continues steady, with a tendency to increased firmness, especially since the reduction in the Bank rate, and it is by no means improbable that an advance in official rates may soon occur. IRON.—In Staffordshire a slight improvement has taken place in the demand for iron since the money market has become easier. Shipbuilding and galvanising sheets, and angle iron, are especially in good demand, but the bar and hoop mills are not so busy, and the orders on hand are very small. The American demand has almost ceased, and with the increasing premium on gold its speedy revival is not anticipated. The colliers are now generally at work, as far as there is employment for them; but, owing to the contracts entered into with other districts, and the large number of blast-furnaces out of operation, the demand is not sufficient to keep now generally at work, as far as there is employment for them; but, owing to the contracts entered into with other districts, and the large number of blast-furnaces out of operation, the demand is not sufficient to keep all the collieries in full work. In Welsh the iron trade retains its vitality, and both rails and bars are in good demand. Puddled bars are less enquired for, while iron for shipbuilding purposes is in brisk request, and there is every probability of a large increase in the demand. From America there is no material change, and the shipments to New York are only about half the quantity sent out twelve months since. In Swedish iron there is no alteration to notice. In Scotch pig-iron, although an extensive business has been done during the week, yet prices have not improved. During the greater part of the week prices remained nearly the same as at the close of last week—51s. 3d. cash, and 51s. 4½d. one month; however, about the middle of the week a concession was made by holders, and prices fell to 51s. cash; and, notwithstanding the reduction in the Bank rate, no rally took place. The last advices from Glasgow state that a moderate business transpired at 51s. cash, and 51s. 1½d. fourteen days; and at these rates sellers remained at the close.

Lead.—There is rather more enquiry, and prices have improved about

at these rates sellers remained at the close.

LEAD.—There is rather more enquiry, and prices have improved about 2s. 6d. per ton. Prices may now be quoted at 20l. 2s. 6d. for common English pig, 20l. 7s. 6d. for LB, and 22l. 5s. for WB; and, altogether, the market has assumed a better appearance.

TIN.—There has been but a very moderate amount of business done during the week. Straits has rather declined in price, transactions having taken place at 94l. 10s. cash, and more recently small parcels have changed hands at 94l. Banca has again been sold at 95l. 10s. As the importations of Straits are large, an improvement in prices can hardly be looked for at present. or at present.

SPELTER.—The market remains exceedingly quiet, but prices are steady 21l. 10s. to 21l. 15s. cash.
Steel remains without alteration.

TIN-PLATES.—There is little doing, and the charcoal makers still com-plain that orders are very scarce—several of the works are only partially imployed. QUICKSILVER remains firm, at the quotation.

GLASGOW, Nov. 24.—The market has been quiet, Business has been lone at 50s. 10\frac{1}{2}d. and 51s. cash. At the close there were sellers at 51s. ash; buyers, 50s. 10\frac{1}{2}d. No. 1 g.m.b., 52s.; No. 3, 51s. 3d.

MIDDLESBRO', Nov. 24.—Our Pig-iron Market has been very quiet since our last, with no alteration in price. To-day warrants are offered at 47s. 6d. cash, and 49s. three months; buyers, 6d. per ton less. No. 1, 50s.; No. 3, 47s.; No. 4, 46s. The orders for consumption are large, and us to contract for forward delivery

BOSTON, NOV. 7.—In English Cannel Coal there have been further sales at \$36 per ton. Pictou and Sydney are quiet, and cargo prices are nominally \$12.50 to \$13 per ton. Anthracite has been in steady retail demand at \$13 to \$14 per ton. The market is quite firm for Pig-tron, and prices have advanced to \$65 per ton cash, with sales

NEW YORK, Nov. 9.—The demand for Domestic Coal has been not at Irregular prices; the arrivals have been large, and have added greatly NEW LORK, NOV. 9.—The demand for Domestic Coal has been good, but at irregular prices; the arrivals have been large, and have added greatly to the atock, which is considerably above that of last year. The advanced prices asked by the leading companies check business. American Ingot Copper has been only moderately active, but prices have advanced. Sales of 40,000 to 50,000 lbs. Lake and Baltimore, at 49 c. to 50 c., closing firm. New sheathing and yellow metal are also firmly held, but the business has been only limited. We quote at 61 c. for the former and 50 c. for the latter. The market for Pig-iron has been only moderately active; but, with the advance in gold, prices are better, and close very firm. American sheet is in demand, and firmly held.

PHILADELPHIA, Nov. 11.—For Iron there is more enquiry, and a better allog in the trade generally: but there is not much doing in the way of sales, owing PHILADELPHIA, Nov. 11.—For Iron there is more enquity, makes, owing selling in the trade generally; but there is not much doing in the way of sales, owing on the firmness of the makers, who are asking an advance on previous quotations, witery reduced stocks of anthracite pig-metal, sspecially foundry, which is held for high rices, and scarce at \$60 to \$62, cash. Forge is worth \$30 to \$55, and Scotch pig \$6 o \$65 per ton. Blooms and boller-plates are steady, with moderate sales, and man entured iron in fair demand at fully former figures. At Pittsburg the market has evilotted an improvement. The sales were more liberal. The aggregate will reach 21 into one of the various descriptions. Copper is held with immense firmness, and is monotive, with large sales of ingot. For manufactured the enquiry is better, and price reveil maintained. There is a fair demand for Coal to go East, and price are steady are well maintained, with free shipments South, for the supply of the Government focilia. The carcity of suitable vessels, however, checks business. The receipts are moderate, as the stocks generally are light for the season.—V. S. Radiroud and Mining Register.

COAL MARKET.—The arrivals during the entire week only amounted to 51 ships, the greater part of which were steamers with gas and contract coal. The market for household coal is without alteration, the few car-

goes daily being taken off at previous quotations. Hartley coals have been less active, and submitted to a reduction of 6d. per ton. Hetton Wallsend, 23s.; Hartlepool Wallsend, 23s.; Eden Main, 23s.; Tunstall Wallsend, 21s. 6d.; Pittington Wallsend, 20s.; Cowpen Hartley, 19s.; 1 cargo unsold; 165 ships at sea.

Wallsend, 21s. 6d.; Pittington Wallsend, 20s.; Cowpen Hartley, 19s.; 1 cargo unsold; 165 ships at sea.

The Coal Trade in France.—It appears that at the commencement of Nov., 1864, the following pits were in activity in the Pas-de-Calais:—Archy-au-Bois, 2; Bruay, 2; Bully-Grenny, 3; Carvin, 2; Courrieres, 3; Cauchy-la-Tour, 1; Dourges, Henin-Liciard, 2; Douvarin, 1; Ferfay, 2; Lens, 4; Licvin, 1; Lys-Superieure, 1; Marles, 1; Meurchin, 1; Vendein, 1; and Vicoigne and Nœux, 2: total, 29. Three pits have been abandoned, having been established on conditions on whigh it was impossible to work them successfully. The Pas-de-Calais may be said to have commenced its industrial and mining existence in 1849; and since that year 32 collieries have thus been developed in the department. This may appear at first sight a considerable result, and no doubt it is, but when compared with the advance made in corresponding matters by other countries, the progress of coal mining industry in the department is relatively feeble. Thus, in the Charlerot basin, which is not above one-third the size of that of the Pas-de-Calais, 44 collieries were created in four years, while the basin of the Ruhr, which dates from nearly the same period as that of the Pas-de-Calais—from 1850—now comprises 150 pits. The relatively slow progress of the Pas-de-Calais is attributed to two causes—first, the disinclination of French capitalists and operatives to mining enterprise and industry; and, secondly, the imperfect communications which exist by water and by railway for the delivery of the products obtained. Even now coal from the Northumberland basin, notwithstanding the great distance which it has to be carried, competes successfully on some points of the French littoral with coal obtained from the Pas-de-Calais.

The rate of discount has been lowered this week to 7 per cent., but the measure had been so fully anticipated in the money and other markets that upon its announcement on Thursday morning it had very little effect on prices; in fact, shares went rather flatter than otherwise. In the MINING MARKET dulness still reigns, and there is very little change to notice or report upon. Wheal Grenville, 51 to 54; at the meeting the accounts showed a cash balance in hand of 643l. 12s. 11d., and assets over liabilities, after charging up an extra month's cost (of upwards of 900%), to the end of October of 361. 12s. 1d. During the quarter the extra cost for buildings, &c., which add to the plant, has been 2571, besides timber, and about 42 tons of tin have been sold, and as the price has declined 151.

to the end of October of 364. 12s. 1d. During the quarter the extra cost for buildings, &c., which add to the plant, has been 2574, besides timber, and about 42 tons of tin have been sold, and as the price has declined 154, per ton below the price the mine at first obtained, the difference to the company has been 6304, on the quarter, and which would otherwise have been profit. The mine altogether looks well, and both the 110 and 120, the most important in the mine, show signs of good improvement. East Grenville shares have been flatter, and leave off 5½ to 5½; the 75 is gradually improving, and coming into ore. East Caradon, 18½ to 19½, and firmer. East Lovell shares have not been so firm, though a large business has been done, and they leave off 14½ to 15½. East Basset, 53½ to 55; Clifford Amalgamated, 34 to 35; East Carn Brua, 6½ to 6½. North Roskear, 17 to 18; we have received one or two communications reflecting upon the management of this mine, more particularly in reference to the delay in the completion of the machinery, whereby heavy calls have had to be made upon the shareholders. One correspondent considers that whon engineers enter into specific contracts they should be compelled by managers to complete them within the specified time, or be made responsible. In the case of the calciner at North Roskear, the agents themselves, we believe, have complained very much that it had not been delivered for months after it was due on the mine, and in consequence the tin could not be returned. Drake Walls, ½ to ½. Great Laxey shares in demand, and advanced to 18, 19.

East Russell, 4½ to 5; in the 130 cross-cut the north part of the lode has been cut into 6½ feet, and is saving work for copper ore of good quality, with every appearance of being near a rich lode. The cross-cut will be continued north for the rest of the lode, when the level has been driven east a short distance. North Chiverton, 2 to 2½; the agent states that the samplings will be increased, and that in a few months the returns will felly meet well, and when the new engine is at work at Hand's shaft it is said that the returns will be much increased. St. Ives Wheal Allen shares nominally 1 to 2; this mine is much improved lately, and the returns are increasing, and, even at the present price of tin will, it is stated, soon meet the cost if the present progress continues. The mine adjoins St. Ives Consols, and is under the same manager. The number of shares is only 900, upon which about 15½ each has been paid. Great Wheal Vor, 33 to 34; Hallenbeagle, 3½ to 33; Lady Bertha, ½ to ½; Marke Valley shares have been in demand at 4½ to 5½; Nangiles, 20 to 22; Prince of Wales, ½ to ½; Providence Mines, 36 to 38. Kelly Bray, ½ to ½; the improvement in this mine holds good; the lode is worth 20% per fathom; the sampling will be 100 tons of ore—80 tons of rich quality—giving a profit on the two months' working. Wheal Harriett shares have been enquired for at 20s. to 25s.; there are indications of another bunch of tin in the 115 west; the end is now worth 10½ per fathom, with a very promising appearance; and from the well-known character of the lode good results may be anticipated; when they had a good bunch of tin, a year or two ago, shares rose to 6½ each. At East Rosewarne, King's shaft is worth 24½ per fm.; the 75 west, 12½ per fm.; the 65, west of King's, 13½ per fm. At Wheal Kitty (St. Agnes) the 65 east is worth 12½ per fm.; west, 22½ per fm. Great Wheal Busy is said to have greatly improved in the bottom levels. The 140, west of the cross-cut, is valued at 12½ per fathom; the 140 east, 25½ per fathom; the 140 east, 30½ per fathom; the 140 east, 06 for fathom. South Condurrow, 1½ to 1½; south Lovell, 1½ to 2: Tincroft, 164 to 17; Vale of Towy, 48; to 68; West Caradon, 6 to 7:

250. per fathom; the 140 west, 305. per fathom; the 140, east of Outer's 351, per fathom. A winze below the 90, on a lode of tin, is valued from 451, to 501, per fathom. South Condurrow, 1½ to 1½; South Lovell, 1½ to 2; Tincroft, 16½ to 17; Vale of Towy, 4s. to 6s.; West Caradon, 6 to 7. North Shepherds shares have not sustained the late rise, for after reaching nearly 5 they declined, and leave off 2½ to 2½; there is no alteration that we hear of in the state of the mine. West Chiverton, 62½ to 67½; West Sharp Tor, 50 to 55; Wentworth Consols, 7½ to 8½; Wheal Chiverton, 6½ to 7; Wheal Crebor, 35s. to 37s. 6d.; Wheal Trelawny, 19 to 20. St. Day United shares have been rather largely dealt in, and leave off 25s. to 30s.; the accounts at the meeting showed a balance in favour of the mine of 6914. 19s. 9d., taking credit for tin in stock 15754. Opic's shaft is down 7 fathoms below the 184, worth 502. per fathom. The stopes and pitches throughout the mine are producing about their usual amount of down 7 fathoms below the 184, worth 50l. per fathom. The stopes and pitches throughout the mine are producing about their usual amount of tin, and the agents calculate from present prospects to raise the usual quantity. Grambler and St. Aubyn, 5 to 6; at the meeting, on the 15th inst., the accounts showed a balance of 97l. 14s. 2d. against the mine, and a call of 10s. per share was made. The copper ore sold on the 27th will be credited next account, and altogether the mine looks very promising, and the agents anticipate finding large deposits of copper ore in the deeper levels. At Wheal Norris meeting the accounts showed a balance of liabilities over assets of 1087l. 6s., and a call of 3s. per share was made. The shaft is down 5 fathoms below the 45 fm. level. The lode in the 45 fm. level end east is worth 8l. per fathom. In the back of the 35 fathom level 100 fathoms of ground have been stoped, producing 23 tons 13 cwts. of tin, realising 149l. 19s. The mine altogether presents very favourable appearances. North Basset, 21s. to 23s. At Devon Consols meeting of may when coun-ively the

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directors a dividend of 101. per share (10,2401.) was declared, leaving 25,8381. 7s. 2d. in hand.

25,838l. 7s. 2d. in hand.

On the Stock Exchange a good business has been done in Mining Shares during the week. The following quotations were officially recorded in British Mining Shares:—Chiverton, 6\(\frac{1}{6}\), 7; East Basect, 52, 54; East Grenville, 6\(\frac{1}{6}\); East Lovell, 16\(\frac{1}{6}\), 16\(\frac{1}{6}\); Great Laxey, 16\(\frac{1}{6}\), 17; Great Wheal Vor, 33\(\frac{1}{6}\), 33\(\frac{1}{6}\); Nangiles, 18\(\frac{1}{6}\), 18\(\frac{1}{6}\); Tincroft, 16\(\frac{1}{6}\); Cifford, 33\(\frac{1}{6}\); East Caradoa, 19, 18\(\frac{1}{6}\); West Seton, 210; Wheal Seton, 19\(\frac{1}{6}\); In Colonial Mining Shares the prices were:—Yudanamutana, 1\(\frac{1}{6}\), 1\(\frac{1}{6}\); Cape, 10\(\frac{1}{6}\), 10\(\frac{1}{6}\); Port Phillip, 1\(\frac{1}{6}\); Scottish Australian, \(\frac{1}{6}\), \(\frac{1}{6}\). In Foreign Mining Shares the prices were:—Montes Aureos, 1\(\frac{1}{6}\), 1\(\frac{1}{6}\); S. John del Rey, 33\(\frac{1}{6}\), 35\(\frac{1}{6}\); Don Pedro, \(\frac{1}{6}\), \(\frac{1}{6}\).

John del Rey, 38\$, 38\$, 38\$, 34\$. United Mexican, 5\$, 5\$, 5\$; East del Rey, \$\frac{3}{8}\$; Alamillos, \$\frac{1}{8}\$, \$\frac{1}{2}\$, \$\frac{1}{1}\$; Linares, 5, 5\$; Don Pedro, \$\frac{1}{8}\$, \$\frac{3}{8}\$.

The Imperial Mercantile Credit Association invite (by advertisement, which will be found in another column) subscriptions for 8 per cent. debentares of the Atlantic and Great Western Railway. The amount of the isms is to be 2,800,000\$\(\text{.}\$\$, of which 1,200,000\$\(\text{.}\$\$ has already been applied for. The price of the debentures is 90\$\(\text{.}\$\$ per cent.; they are to be redeemed at the end of three years at par; and they bear interest at 8 per cent, per sneam, the payment of which is guaranteed for the three years by the Consolidated Bank of London. These terms, coupled with the fact that the 90\$\(\text{.}\$\$ is payable in seven instalments, extending to May 15 next, give a return on an investment for the three years of nearly 12\$\(\text{.}\$\$ per cent. per sneam. The return of the principal is secured by the deposit at the Bank of England, in the names of Messrs. Samuel Gurney, M.P., John P. Kennard, and Charles Mosley (as trustees), of bonds and shares amounting at the usual exchange to 4,230,493\$\(\text{.}\$\$ The railway comprises 385 miles of main line and 167 miles of extension, passes three Free States, far removed from the war, and is now finished, completing an unbroken communication of 1200 miles between New York and St. Louis. The traffic has hitherto far exceeded every anticipation, and the present operation is preliminary to an amalgamation of the entire line under one management. The statistics of the progress of general trade in the districts traversed by the line are highly favourable to its prospects, and it is mentioned that, as respects petroleum, in the carriage of which this railway has practically the monopoly, the production in 1859 was 750 barrels of 40 gallons, whilst it increased in the following year to 50,000 barrels, and by 1863 had reached 2,220,000 barrels. The Clevel

The Governor and Company of Copper Miners in England have given the necessary parliamentary notices of application for the Act to enable them to carry out the resolutions of the meeting reported in the Mining Journal of Aug. 13, for cancelling all but one class of shares. The Port Talbot Company has also given notices in which the Copper Miners' Company are interested.

Talbot Company has also given notices in which the Copper Miners' Company are interested.

"Henry Briggs, Son, and Company" is to be incorporated under the Joint-stock Companies Act, 1862, with limited liability, and a capital of 135,0002, in shares of 152, each, for the purpose of working the collieries of the firm of that name, at Whitwood and Methley, near Normanton, Yorkshire, comprising about 2600 acres, and now producing from 5000 to 6000 tons of coal weekly. The prospectus states that the primary object of the undertaking is to secure the co-operation of all those connected with the collieries, either as managers, workpeople, or customers, and thus prevent those frequent trade disputes which now occur. The coals worked are the Stanley Main, 6 ft.; and the Haigh Moor, 4 ft. 6 in. thick; underlying these is the Middleton Main seam, about 5 ft. thick, which may hereafter provide a field for extended operations for 50 years to come. It is estimated that the valuation will not exceed 85,0001, for the entire property, including 35001, for the coal not yet worked. The constitution of the undertaking appears an ingenious combination of the joint-stock and friendly society principles, so that it is made the interest of all employed to promote the welfare of the enterprise as much as the independent shareholders. The existing firm retain two-thirds of the shares, and the remainder will be allotted by preference; first to the workmen, then to the customers of the colliery, and lastly, to the general public. The prospectus will be found in another column.

At Redruth Ticketing, on Thursday, 3247 tons of ore were sold, realising

will be found in another column.

At Redruth Ticketing, on Thursday, 3247 tons of ore were sold, realising 15,789£. 0s. 6d. The particulars of the sale were:—Average standard, 125£. 19s.; average produce, 6; average price per ton, 4£. 17s. 6d.; quantity of fine copper, 196 tons 10 cwts. The following are the particulars:—

Date. Tons. Standard. Frequee. Price per ton. Per unit. Ore copper, 0st. 27. 3336 £122 \$0 . 6½ £4 15 0 . 15s. 6d. £77 10 0 Nov. 3 3949 . 119 50 . 7 5 11 6 . 15s. 6d. £77 10 0 Nov. 3 3949 . 119 50 . 7 5 11 6 . 16 0 . 80 0 0 . 10 . 2575 . 121 10 0 . 6½ . 5 3 0 . 15 10 . 79 4 0 . 17 . 5111 . 134 11 0 . 5 . 3 19 0 . 15 11 . 79 12 0 . 24 . 3247 . 125 16 0 . 6 . 4 17 6 . 16 1 . 80 7 6 Compared with last week's sale, the advance has been in the standard 5s., and in the price per ton of ore about 4d. Compared with the corresponding sale of last month, the advance has been in the standard 2£ 15s., and in the price per ton of ore about 3s. 6d.

The directors of the Devonshire Great Consolidated Copper Mining Company, at their board meeting held yesterday, declared a dividend of 10,240L, being 13L per share, arising from profits on sales of copper ore sampled in the months of July and August last. After the payment of the same there remains in hand a balance of \$4.9881, 7s. 2d. in cash, ore bills not at maturity, and reserve fund applicable to the general purposes of the company.

and August last. After the payment of the same there remains in hand a balance of 25,838.7. 3. 2d. in each, ore bills not at maturity, and reserve fund applicable to the gueral purposes of the company.

At the West Basset Mine meeting, on Wednesday (Mr. W. A. Thomas in the chair), the accounts showed—Balance carried over from last meeting, 271. 7s. 1d.; fins, 2l. 17s. 6d.; copper ores sold, 4413l. 1s. 8d.; stores sold, 1l.; advance on tribute, 200l.; the sold, 213l. 2s. 4d. =8585l. 1s. 7d.—Cott for Aug. and Sept., 3189l. 19s. 6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 32l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, 300l.; boundary cost, 52l.12s.6d.; syalty (less income tax), 302l. 18s.; advance on tribute, and 465l. 10s. 3d., the balance and the propert stated that some valuable inbute ground was being opened, and that the prospects of the mine had improved during the quarter:—153 flat some valuable inbute ground was being opened, and that the prospects of the mine had improved during the quarter:—153 flat, 50s. 9ft. 3 ln. diven in levels; and 37 fms. 2 ft. 6 in. aunk in shafts and winzes. There are 30 pares stoping on tutwork for tile, and 26 pitches on tribute.

At the Wheal Owles meeting, on Nov. 18, the accounts showed a credit balance of 1660l. 17s. 10d. On Nov. 18, they sold 51 tons of lead ore, at 18l. 15s. per ton amounting to 596l. 5s., which is the first sale for the eredit of the next acco

sents for resuming the sinking of the engine-shaft for another level. We have sold laring the quarter 9 tons 11 cwts. 1 qr. 23 ibs. of black tin, for 6031. 7s. 1a."

At the North Chiverton Mine meeting, on Nov. 19 (Mr. E. Cooke in be chair), Mr. J. H. Murchison was appointed secretary in the room of Mr. Dunsford, becased. Details in another column.

At the West Wheal Vor meeting, on Monday (Mr. J. Schofield in the bair), the accounts made up to the end of September showed a credit balance of 1150%. It is another column.

At the Rast Margayset Mine meeting, on North 15.

Details in another column.

At the East Margaret Mine meeting, on Nov. 15, the accounts showed adult balance of 932. 4s. 1d. A call of 15s. per share was made. Capta. James and Birch, in their report, say—"Our tutwork operations employ 36 men. We have also 39 pitches employing 44 men, at an average of 13s. 4d. in 14.: total, 80 men underground. Our number of tributers are increasing, from which weekpect an increase of tin. There are thousands of fathoms of ground laid open that would work at a high tribute if we could get tributers to come in. We expect 18 tons of tin for the next quarter, with some reduction of cost."

could get tributers to come in. We expect 18 tons of the for the next quarter, with some reduction of cost."

At Great Work meeting, on Tuesday, the accounts showed a credit balance of 6001. The profit on the three months' working was 632.

At New Crow Hill Mine meeting, on Wednesday (Mr. W. S. Sutton in the chair), the accounts showed a cash balance of 1111. Is. The liabilities exceeded the assets by 3361. 12s. 1d. A call of 1s. per share was made. The agents report that there are 12 mm on tribute, at 50s. per ton for ore; the lode is 4 ft. wide, averaging 7 cwts. of ore per fathom.

At South Tolgus meeting, on Tuesday, the accounts showed a credit balance of 601. The profit on the two months' working was 1051.

At South Carn Brea Mine meeting, on Tuesday, the accounts showed a debit balance of 841. 16s. A call of 4s. per share was made. The outstanding calls amount to 2441. 12s. 6d. Capt I. Richards says—"The 118, east of the flat-rod shaft, caitines to open up profitable ground, and although the other different points of operation, are not rich, they are very promising; and judging from these circumst ances, I think I am fairly justified in calculating upon greater productiveness at an in creased depth, and I venture again to express my opinion that this will be the case."

At St. Ives Consols meeting, on Nov. 15, the accounts showed a credit

At St. Ives Consols meeting, on Nov. 15, the accounts showed a credit balance of 14t.

At the Wheal Norris meeting, on Nov. 18 (Mr. T. B. Simpson in the chair), the accounts showed a debit balance of 1087t. 6s. A call of 3s. per share was made. Capt. John Andrews reported upon the various points of operation.

At the Gurlyn Mine meeting, on Wednesday, the accounts for the four months ending Sept. 30 tast showed a debit balance of 697t. 16s. 9d. The bankers' passook showed a cash balance of 134t. 1ts. 11d. A call of 5s. 4d. per share was made. The purser reported that his negociations with Mr. Mostya for the sale of the mine had terminated. The report of the agents was read, and from the recent improvement in the mine it was unanimously resolved that the operations be continued in accordance with their recommendation; and that Capt. Tredinnick, of the Great Work Mine, he directed to inspect the mine, and that a copy of his report, together with that of the agents, be circulated amongst the shareholders. Application is to be made to Mr. Gregor, the lore, for a remission of the dues.

At South Hingston Mine meeting, on Tuesday, the accounts showed a debit balance of 128t. A call of 3s. per share was made, and it was resolved to suspend all operations, owing to the present state of the times.

At Wheal Emily Henrietta meeting, on Monday, the accounts for the two months showed a loss of 473t. 19s. 4d., and a call of 10s. per share was made. The meeting was adjourned to bee. 5, for the purpose of receiving the report of Captain Daw and Mr. Thomas Angove relative to the working of the south ground.

At Wheal Curtis meeting, on Nov. 18, the accounts showed a debit balance of 158t. 1ts. 9t. A call of 7s. 6d. per share was made.

At the Botelet Mine meeting, on Nov. 18, the accounts showed a debit balance of 16st. 1ts. 9t. A call of 7s. 6d. per share was made.

At the Wheal Arthur meeting, on Monday (Mr. Peter Watson in the chair), the accounts showed a debit balance of 16st. 1ts. 9t. A call of 7s. 6d. per share was made

7s. 6d. per share was made. Capts. James Jules and James Nancarrow reported upon the various points of operation.

At Vigra and Clogau Mining Company meeting, to be held on Monday, the accounts for the nine months ending Sept. 30 show a credit balance of 52671. 2s. 3d. A call of 11. per share is made. The directors propose an alteration in the constitution of the company. (It is at present in 4200 shares, of 51. each). It is proposed to form a company with 100,0001. capital, in shares of 11. each; to give \$4,0001. to the old share-noiders—20 new shares for each one old—to give 50001, for the West Clogau property, and to allot the remaining shares to present holders at par. During the nine months comprised in the accounts nearly 1245½ tons of quartz were crushed, yielding 2241% oss. gold=1 cz. 16 dwts. per ton average. This sold for 80971. 19s. 8d. Mr. Arthur Dean reported upon the various points of operation. In conseq nence of the discoveries lately made the future prosperity of the enterprise is, in his opinion, much more firmly established now than at any previous period.

At the Welsh Gold Mining Company Meeting, on Tuesday, the accounts for the year ending Sept. 30 will show a debit balance of \$231. 9s. The directors report states that, under the guidance of their present experienced engineer, Mr. A. Dean, and with the view so work large quantities, they have not hesitated to purchase an engine of 120-horse power, and to order the necessary additional machinery (capable of working 150 tons per day). This engine is at the mine, and the additional satings have arrived at the port; and as quickly as circumstances will permit the same will be erected, and the company proceed to work on a large scale. In the meantine, as fast as houses can be built and made habitable for labour, men are being put into the mine to lay it open, to give an increased supply of mineral without interruption. Mr. Arthur Dean reports that the prospects of the enterprise are very cheering, and with the completion of the machinery a very

At the East India Coal Company meeting, on Monday (Mr. J. Wilde in the chair), a resolution was unanimously passed, increasing the capital of the company to the extent of 20,000L, divided into 2000 snares of 10L each, having a preference and guarantee dividend out of profits at the rate of 10 per cent. per annum on the amount from time to time paid-up; but such shares to be redeemable, at the option of the directors, at any time, upon giving six calendar months' notice by public advertisement. A deposit to be paid of not less than 2L per share, and the shares to be offered pro rate in the first instance to the shareholders. Details in another column.

in the first instance to the shareholders. Details in another column.

The Russian Government have completed the public line of telegraph throughout European Russia and Siberia in Asiatic Russia to Kiakhta, the frontier town of China. Kiakhta lies to the north-west of Fekin, and is distant about 750 miles from that city. It is, therefore, possible to send a communication from London to the capital of China in about four days. The line from St. Petersburg to Kiakhta extends over a distance of 7000 or 5000 miles, and its completion so far is an event of great importance, not only to European merchants, but also to the different Governments whose Ministers reside in the Celestial City.

MR. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (late of 48, Threadneedle-street), STOCK AND SHAREDEALER. (Extablished Ten Yaars.)
FOR SALE: -25 Bedol-Aur, 10s. 6d.; 10 East Laxey; 5 Great Laxey; 50 Great South Chiverton (offer wanted); 15 Bryntail, £2 13s. 9d.; 90 North Minera, 9s. 2d.; 10 North Shepherds, £7§; 30 Lady Bertho, 9s. 9d.; 10 Calvadnack, 17s. 6d.; 5 East Lowell, £15½; 50 Crebor, 36s. 9d.; 10 Long Rake, 31s. 9d.; 30 Great Retailack, 2s. 3d.; 20 Wheal Harriett, 18s. 3d.; 20 Kelly Bray, 11s. 3d.; 2 Buller, £11 18s. 9d.; 10 East Russell, £4 18s. 3d.; 70 Wheal Unity, 6s. 9d. (call paid of 4s.); 15 North Bassel, 26s. 9d.; 50 Vale of Towy, 4s. 9d.; 100 Redmoor, 1s. 6d.; 1 West Tolgus.

MR. G. D. SANDY, SHARED EALER, No. 48, 1the FOLLOWING SHREET, LONDON, E.C., has SPECIAL BUSINESS North Devon Silver-Lead Fosper Hill. Great North Downs. Great North Downs. Great North Downs. Cardon Hill. Camborne Vean. Great North Downs. Cardon Hill. Crane. Lady Bertba. Crane. Lady Bertba. Rott Frances. North Frances. North Frances. North Shepherds. Trimey Hall. Great Fortune. Lady Bertba. South Goldent. Wheal Ludcott. Wheal Ludcott. Wheal Kitty (Leilant). Wheal Transpos. Wheal View Ludcott. Trimey Hall. Great Fortune. Last Great Bong Ade shares for investment forwarded gratts. Current Daily Price List may be obtained as usual.

MR. JOHN R. PIKE, GENERAL SHAREDEALER, OFFERS his SERVICES to INVESTORS.
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No. 2, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C.
W. BIRDSEY is a BUYER of 500 (or any part of) Alten and Quenangen Mining
Company (Limited), at 42 per share.

MATTHEW GREENE, STOCK AND SHAREBROKER,
9, GRACECHURCH STREET, LONDON, has SPECIAL BUSINESS in
Great Laxey, East Laxey, East Snaefoll, East Rosewarne, Trelawny, and East Grenville.
Gentlemen of position can have shares registered in their name, if buyars, before payment, and if sellers cash on receipt of transfer. Commission 1½ per cent.
Bankers: London and County Bank; Imperial Bank, Lothbury.

RICHARD CLIFT, MINE SHAREDEALER, late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where all letters are to be addressed.

MR. H. WADDINGTON, MINING AND SHAREBROKER, 20, THROGMORTON STREET, LONDON, E.C. Shares in railways, mines, &c., bought and sold on the usual commission. Clifford Amsigamated, Grambler and St. Aubyn, East Grambler, and Great South Toigus should be bought at once. West Seton shares should be bought at the present reduced price.

MR. E. GOMPERS, MINING OFFICES, BUSINESS TRANSACTED in BRITISH and FOREIGN STOCKS and SHARES, Terms, 14, percent. Bankers: London and Westminster Bank.

MR. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 13, THROGMORTON STREET, LONDON, E.C., pays particular attention to British Lead, Copper, and Tin Mines, for which he solicits orders to sell or buy, at nett prices.

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M. WALTER TREGELLAS, STOCK AND SHAREBROKER, 3, CROWN COURT, THREADNEEDLE STREET, LONDON, S. C. 3, CROWN CGURT, THREADNEEDLE STREET, LONDON, E.C., strong nends the following mines for investment, which are safe to have a rise in price Barbara Gold, North Roskear, North Shepherds, Wheal Lovell, New Rosewarz fendron, East Basset and Grylis, New Trevenen, and Great Wheal Vor.

MR. J. P. ENDEAN, STOCK AND SHAREBROKER,

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Having had 25 years' experience in the mining districts of Devon and Cornwall, and
three in the London market, with daily information of important changes from qualified
agents, also the most authentic reports relating to other investments, he is in a position
to afford the earliest information to his cilents, and to direct capitalists whether to buy or
sell in mines, rall ways, or other securities.

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A carefully selected list of sound progressive and dividend shares (certain to give a
large percentage immediately) forwarded on receipt of 5s. In stamps.

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otherwise. Especial attention is given as to buying and selling mining shares. The
latest information can be given as to present price and prospects, which they are enabled
to give by daily communication with their agents in London, Devon, Corn wall, ireland,
and Wales. Mines inspected and reported upon by experienced agents, and reliable information given as to mining property.—Address, Thomas Molyneous at on the control of the c

MANCHESTER.

MANCHESTER.

INSURANCE, AND GENERAL SHAREBROKER,
ROYAL INSURANCE BUILDINGS, KING STREET, MANCHESTER.

A Monthly Investment Circular on application.

MR. IMBERT, TRAVELLER for the PONT-A-MOUSSON FORGES, MEURTHE, FRANCE, DESIRES to UNDERTAKE in FRANCE the PLACING of ENGLISH IRON. Address as above.

ISAAC FRANCIS, NANT, WREXHAM, a dresser of 30 years' experience, is OPEN to INSPECT ANY DRESSING PLACE on moderate terms, Mr. Francis can introduce PLANS of IMPROVEMENTS that will SAVE THIRTY PER CENT. COST in certain departments of any dressing floors.

The Share of the control of the cont

BLENDE.

BLACK TIN.

COPPER ORES., and sold at Tabb's Hotel, Redruth, Nov. 24

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	algamated			17	6	North Treskerby						-
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ditto	********	63	2	3	6	ditto		56		. 3	18	-
ditto	*********			19	6	ditto		54		. 3	5	1
ditto	********	56	1		6	ditto		48		. 3	12	-
ditto	*******	54	6	13	6	West Caradon		74		. 6	7	-
ditto	********	53	3	18	0	ditto		72		. 4	17	-
ditto	*********	25	6	1	0	ditto				. 5	4	-
ditto	*********	12	4	4	0	ditto				. 4	2	-
Wheal Rose		08	2	18	0	ditto				. 4	3	-
ditto		07	4	14	0	Great Wheal Busy					13	1
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COMPANIES BY WHOM THE ORES WERE PURCHASED. | COMPANIES BY WHOM THE ORES WERE PURCHASED. |
Names	Tons.	Amount.		
Vivian and Sons	268 5-6	\$2350 19 5		
Freemas and Co.	1974	991 5 0		
Grenfell and Sons	297	1180 18 6		
Sims, Willyams, and Co.	412 5-5	1764 7 2		
Williams, Foster, and Co.	5624	3108 10 7		
Williams, Foster, and Co.	3677	1716 11 2		
Bankart and Sons	3617	1716 11 2		
Bankart and Sons	3617	1081 16 4		
Copper Minere Company	3774	1081 16 4		
Copper Minere Company	3774	1081 16 4		
Copper Minere Company	3774	1081 16 4		
Sweetland, Tuttle, and Co.	223	441 16 6		
Penolawdd Copper Co.	1167	316 19		
Penolawdd Copper Co.	127	115	12	
State	1247	115	12	
State	1247	115	116	19
Copper Minere Company	116	19		
Copper Minere Company	116	19		
Copper Minere Company	116	19		
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Copper Minere Company	116	19		
Copper Minere Company	116	19		
Copper Minere Company	116			
Copper Minere Company	116			

Total 3247

Copper ores for sale on Thursday next, at Tabb's Hotel, Redruth.—Mines and parcels—Clifford Amalgamated 573—West Seton 506—Wheal Seton 598—Fowey Consols 210—East Pool 176—South Wheal Crofty 171—West Wheal Toigus 124—Wheal Rasset 119—South Toigus 112—East Basset 582—Tineroft 81—Dolcoath 76—Tresavean 50—Condurrow 31—Crane 26.—Total, 3033 tons.

Copper ores for sale on Thursday week, at Tabb's Hotel, Redruth.—Mines and parcels—West Basset 373—Prosper United 330—Carn Brea 272—East Carn Brea 217—Charlotte United 201—Par Consols 147—Rosswarns United 91—Rosswarns Consols 89—New Treleigh 84—Great South Toigus 81—Copper Hill 88—Wheal Uny 36—Higgins's Ore 32—South Dolcoath 30—Champlon's Ore 23—Wheal Agar 20—South Carn Brea 16—Great Wheal Aifred 13—West Wheal Trevelyan 9—Crowan Consols 7.—Total, 2144 tons.

THE SLATE TRADE-ITS STATE AND PROSPECTS.-The highly satis-The Slate Trade—its State and Prospects.—The highly satisfactory position of the Slate Trade—the demand being so much greater than the supply—renders all information respecting it of general interest Some three years since a descriptive pamphlet was issued by Mr. T. C Smith, of which two editions of 5000 each were speedily disposed of; this has now been re-printed, with much original matter from practical authorities in the several districts, and particulars of most of the quarries at work, explanatory of their state and prospects. The new work is published at is, each, and can be had at our office.

WATSON AND CUELL'S MINING CIRCULAR.

WATSON AND CUELL,

MINING AGENTS, STOCK AND SHARE DEA ERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

Messrs. Warson and Cuell having made arrangements for transferring their weekly Circular, which has had so large a circulation during the past ten years, to the columns of the Mining Journal, their special reports and remarks upon Mines and Mining, and the state of the Share Market, will in future arrange in this column.

their weekly Circular, which has had so large a circulation during the past ten years, to the columns of the Mining, Journal, their special reports and remarks upon Mines and Mining, and the state of the Share Market, will in future appear in this column.

In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. Watson, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium published in 1843 Mr. Watson was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. Watson and Cuell have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share-dealing than there is at present; and, from the lengthened experience of Messrs. Watson and Cuell, they are emboldened to offer, thus publicly, their best services to all connected with mines or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs. Watson and Cuell transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt, and transmission of dividends, obtaining information for clients, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. Watson and Cuell also inform their clients and the public, that they transact business in the public funds, railways, docks, insurance, and every other description of shares dealt in on the Stock Exchange.

Messrs. Watson and Cuell

matters relating to the state and prospects of mines and mining companies, and are enabled to supply shares in all the best mines at close market prices, free of all charges for commission.

THE DEVON GREAT CONSOLS.

THE DEVON GREAT CONSOLS.

It is not yet twenty-one years since the Devon Great Consols Mining Company was formed and commenced operations, Capt. Josiah Hitchins being one of the chief promoters. At that time the sett, which stretches from the River Tamar to the River Lumburn, a distance of three miles in length and about two miles in width, was occupied entirely by fields and plantations, the only trace of mining adventure upon it being an old half-forgotten shaft, overgrown with trees, and said by tradition to have been dug about the middle of the last century. At this point the company set to work. The shaft, which was 14 fms, deep, was cleared out and enlarged to good working dimensions before it was sunk any further. Then the miners proceeded to deepen it, and at 17 fms.—18 ft. below the old working—came upon the famous lode which has made the fortune of the mine. No calls have been needed since that time. The company at once entered upon a career of unexampled prosperity. Never since when at Huel Virgin, a hundred years ago, the first five weeks and two days' working produced 15,300. worth of ore at the cost of a little over 2004, had such a discovery been made. The consequences are well known. The shares, 1024 in number, on which only 12. has been paid, have been sold for 8504, and though they have had that fluctuations—failing in the panic 16 184-48 to 1604; and again, when a false report was circulated of the condition of the mines, in a letter signed "Typhon," from 4501. Disjoin—they are now quoted at 6004, and have been sold within the past few weeks at 500. As the present rate of dividend is over 10 per cent. on that we had a supplied to the statistics were alread, and atil realise, such commons prices, it is easy to understand what a literal "nine of wealth" the Devon Great Consols has been to the first proprietors, severa to whom are still interested in the undertaking has been of the directors, severa to whom are still interested in the undertaking. The number of shareholders were the directors, s

and are so distributed over the length and breadth of the sett that a stranger would be led to imagine that they were several separate concerns. The magnitude of the erections at the several points from which the mine is worked would also tend to induce that belief. Indeed to each of these points the name of a separate mine is given; but however distinct from one another Wheal Maria, Wheal Janah Anna Maria, Wheal Josiah, and Wheal Emma may appear to be, they are all connected below, and one may walk underground a distance of two miles and a-half from one extremity to the other. Twony-eight miles of ground have been explored, and one of the shafts (Richards's engine-shaf' named affer Capit. Janas Richards, the manager) has reached a depth of 224 fms., 1344 ft.—eyer a quarter of a mile. Great, however, as this depth is, there are several mines that far exceed the Devon Consols in this particular. At Dukinfield, in Cheshire, there is a ceal pit the lowest point of which is 350 fms. or 2100 ft. below the surface; and a mine in Cornwall has been sunk to about the same depth. There are between five and twenty and thirty shafts at Devon Consols; and the principal ones include—Morris's engine-shaft, named after Mr. T. Morris, the resident director; Richards's engine-shaft, already mentioned; Gard's engine-shaft, he resident director; Richards's engine-shaft, already mentioned; Gard's engine-shaft, included in this scientifican and machinary on the mine is estimated at 60,000 ft. Included in this scientifican and machinary on the mine is estimated at 60,000 ft. Included in this scientifican are the following engines and water-wheels:—Two steam-engines of 24-inch cylinder, 34-horse power each; two steam-engines of visiones, four steam-engines of 30-inch cylinder, 54-horse power, each; two steam-engines of visiones and water-wheels on the mine, the principal of which are—two wheels, each of 9et diameter and 12 fest breats, and of 140-horse power, with two 12-inch cylinders, 30-inch cylinder, 34-horse power, for pumping an

utlarity of Devon Consois that all the machinery needed—even the steam de upon the mine. The establishment is indeed of the completest charac-es a foundry with all its appurtenances; a fitting shop; a large quantity

of machinery for executing metal works, including a steam hammer; saw mills driven by water; and a shoeing forge; in addition to the usual smiths' and carpenters' shops. The efficiency of the resources of the metahnical department will be apparent when it is stated that one of the large engines was laterly removed a considerable distance from one part of the mine to another, re-rected, and at work in 13 days. The mine also possesses a bosomotive railway four miles long, terminating in an incline of half a mile at Morwellham, where the company have a ship dock and store ore-foors. Branches from the rail way penetrate to all the principal parts of the works, running into the main coal-yard and store. It will serve still further to fituatrate the magnitude of the company's operations if we state that there are consumed per month about 200 toos of coal, 160 loads of timber (50 feet per load), and 200 lbs. of powder; and that the rates and taxes paid to the parish of Tavistock amount annually to about 12001. Last year 53401. was expended in timber. In the store, an extensive building of several floors at Annu Maria, is kept all the miscollaneous assortment of manufactured articles used upon the mines. The value of the stores was estimated at the time the last balance-sheet was made up at 60001.—Western Morning News.

THE IMPERIAL MERCANTILE CREDIT ASSOCIATION (LIMITED) ARE AU-THORISED TO RECEIVE APPLICATIONS FOR £2,800,000 CERTIFICATES OF DEBENTURE OF

THE ATLANTIC AND GREAT WESTERN RAILWAY

(NEW YORK—PENNSYLVANIA—OHIO),

(NEW YORK—PENNSYLVANIA—OHIO),

(Which £1,200,000 have been already applied for.

These certificates will be issued at £200 for £100, to be redeemed at par, £100 sterling, the end of three years, with interest at 8 per cent. per annum, payable half-yearly, on the 15th of May and 15th of November in each year; the parment of the interest in andon being guaranteed by the Consolidated Bank (Limited), London.

Samuel Gurney, Esq., M.P.; John F. Kenard, Esq.; Charles Mozley, Esq. BANKERS.

The Consolidated Bank, London and Manchester.
Mesars. A. Heywood, Sons, and Co., Liverpool.

Messrs. A. Heywood, Sons, and Co., Liverpool.
Solicirons.
Messrs. Freshfields and Newman, Bank-buildings, London, E.C.
Messrs. Joshua Hatchinson and Son, 15, Angel-court, Throgmorton-street, London, E.C.
E. F. Satterthwaite, Esq., 38, Throgmorton-street, London, E.C.
Messrs. T. Tinley and Sons, No. 44, Brown's-buildings, Liverpool.
Messrs. Shore and Kirk, No. 14, 81. Ann's-square, Manchester.
The Imperial Mercantile Credit Association (Limited) are prepared to receive subscriptions for the above amount of certificates of debentures, of which £1,200,000 have hean already applied for. criptions for the above amount of certificates of desentures, of which £1,200,000 have een already applied for.

The Atlantic and Great Western Railway consists of the following divisions and

hes:—
The main line in New York 50 miles
in Pennsylvania 90 ,,
in Ohio 245 ,, =385 miles.

Extension in New York (Buffaio) 45 ,,
to Oil Creek in Pennsylvania 35 ,,
to Coal Regions in Ohio (New Lisbon) 67 ,, =167 miles.

The price of issue is fixed at 90, and the instalments are payable as follows:—

The certificates will be paid off at par, on 15th November, 1857.

The interest on the investment, including the redemption at par, is upwards of 12 per cent. per annum, exclusive of interest on deferred instalments.

Subscribers have the option of paying any or all of the instalments in advance, and will be allowed a discount of 8 per cent. per annum on each prepayments.

After allotment, scrip will be issued to "bearer." On payment of the final instalment, the acrip will be exchanged for certificates of debenture, with guaranteed interest coupons attached, payable 15th May and 15th November in each year.

coupons attached, payable 10th May and 10th November in each year. To Samuel Gurney, Esq., M.P., J. P. Kennard, Esq., and Chas. Mozley, Esq., Trustees. 9, Great George-street, Westminster, Nov. 4, 1864.—Dean Stra: You are aware that, at the request of the capitalists fursishing the funds for the construction of the Atlantic and Great Western Railway, my firm undertook the grave responsibility of the supervision of the works of the line, to be executed under a contract with Mr. MeHenry, and from the plans and designs of Mr. Thomas W. Kennard, the engineer-in-chief of the railway. Before the works were commenced my firm sent one of its most experienced agents, who had superintended the execution of several large works, and who had been in its employ upwards of 30 years, and entrusted to his charge the supervision of the various works to be executed on the railway. It is due both to Mr. Kennard, the engineer-in-chief, and to Mr. MeHenry, the contractor, that I should state to you that the position we occupied, which might have been an invidious one, has not in the slightest degree partaken of that character. Every recommendation of our agent has been at once cherrially carried out, and Mr. McHenry has executed his contract with an honest de-therfully carried out, and Mr. McHenry has executed his contract with an honest dedegree partasen or that character. Every recommendation of our agent has been at one cheerfully carried out, and Mr. McHenry has executed his contract with an honest desire to carry out every engagement in a fair and liberal spirit. The line has been ballasted and laid in a style fully equal to the best of our English railways, while the extremely favourable nature of the country through which it passes has rendered necessary so few works of art, that its maintenance need not exceed the average cost per mile of our railways at home. The stations throughout are of ampie extent, and the siding accommodation fully equal to the requirements of the traffic. It must be very satisfactory to you to find that the engineer-in-chief states in his last report that the traffic at the present time is sufficient to pay, at the then price of gold, the dividend on all the consolidated bonds of the entire line, assuming them not to be issued to a greater extent than £6500 starting (ask thousand five hundred pounds sterling) per lines limit. Estimates and predictions are so often flaisified that this fact becomes peculiarly valuable, the more so as at the present time the rolling stock to be provided under the agreement with the local traffic; and when the rolling stock to be provided under the agreement with the Eric Company is placed on the line, these increased facilities cannot fail to produce an amount of traffic far exceeding the estimates which have been prepared in regard to it.

I am, dear Sira; (for Betts and Solf), yours faithfully, S. MORTON PETO.

Increase in the carriage of produce from west to east during the past five years, derived from official returns.

		CHICAGO.			
	Total grain	. 1	at Cattle	e.	Pigs.
1859 Bushels	16,754,138	*********	32,500		110,247
1860	31,108,759	*********	92,000		227,164
1861	50,481,867	**********	115,000		289,094
1863	56,487,110	*********	107.966		491,135
1863	54,741,639	*********	197,341		862,200
		MILWAUKE	R.	Port	, beef, lard,
		Total grain.		an	d tallow.
1859	Bushels	6,550,896		Lbs. 16	,206,400
1860	*********	9,995,000		11	.068,000
1861	*********	16,710,580		10	.682,103
1862	********	18,732,389		30	.553,668
1863	********	16,992,335		41	.609.553
	Flour.		Wheat.		nd sheep.
1860 Barrels	803,700 .	Bushels !	.033,335		209,608
1861	1,872,111 .		,286,936		281.495
1862	1,585,325 .		827.629		481,804

1860 1861 1862 1863	*****	**********	asbels				*****		
monopoly :-							ni may	nes precionly	th
		produced is	1859			78	0 bbls.	of 40 gallons.	
	**	10				50,00	10	H Benouse,	
	99	99		********		550,00			
	200	99		********				**	
The Cleve full extent or rior, and in	O3 100	composity so	he Atla	MERCEN COL M	ron, the These r	estern ore from	Railwa n the	y is engaged to mines of Lake 8 d in—	th

ATLANTIC AND GREAT WESTERN RAILWAY—NEW YORK,
PENNSYLVANIA, AND OHIO.

FORM OF APPLICATION.—(To be retained by the bankers.)

No.... To the Imperial Mercantile Credit Association (Limited).

Having paid to the Consolidated Bank (Limited), the sum of £ , I hereby request that you will allot me £ certificates of debanture of the Atlantic and Great Western Railway, and I hereby signed to accept such cartificates or debentures, or any less number that may be allotted to me, and to pay the instalments thereon, according to the terms of the prospectus. I am, your obedient servant,

Signature

Date.... Address in full.

Barkers—Mesers. Scholey and Skipworth, Wakefield.

Solicitous—Mesers. Scholey and Skipworth, Wakefield.

AUDITOR—To be appointed by the company.

PROSPECTIS.

This company is projected for the purpose of working the extensive collieries at Whitwood and Methley, near Normanton, Yorkshire, now carried on by the firm of "Henry Briggs, Son, and Co."

It is originated by that firm, with the primary view of securing the co-operation of all those connected with the collieries, either as managers and workpeople, or as customers, in the earnest hope of thus affecting a satisfactory solution of the difficult problem now so largely occupying the attention of political economists and philanthropists—namely, the best mode of associating capital and labour, and of preventing the occurrence of those trade disputes which so frequently disturb the social relations of our country. The collieries are now in full operation, producing from 5000 to 6000 toas of coal weekly. They comprise about 2600 acres, hold under lease from the Earl of Mexborough, the Hon. and Rev. P. Y. Savile, Mesers. Holdsworth, Favell, and others; forming altogether one of the most regular and best situated coal fields in West Yorkshire.

The scatacl is crossed by the Middland and North-Eastern Kallways; and by the Methley branches of the Lancashire and Yorkshire, Great Northern, and West Yorkshire Hailways; as also by the Aire and Caider Navigation, with all of which lines of conveyance the colleries are in direct communication.

The seams of coal now being worked are—the well-known Stanley Main Seam, 6 feet thick, and the Haigh Moor Seam, 4 feet 6 inches thick; and underlying these is the Middleton Main Seam, about 5 feet thick, which may hereafter provide a field for extended operations for upwards of fifty years to come.

There are three shafts now in use for drawing coal, with separate and independent pumping and ventilating shafts; the whole fitted with all the engines and other apparatus requisite for an extended trade.

The plant comprises, in additio

accrued.

The adoption of the mode of appropriation thus recommended would, it is believed, add so great an element of success to the undertaking as to increase rather than diminish the dividend to the shareholders.

The advantages anticipated are:—1. The attainment of a direct incentive to every worker, whether a shareholder or not, not only to do his own duty, but to see that his fellow-workmen do not neglect theirs.—2. The prevention of causes of dispute between the employers and employed.—3. The attaining of direct advantage to the operatives as well as the shareholders from the adoption of improved modes of working, either by machinery or otherwise.—4. The securing of a permanently settled and superior class of workmen.

The attainment of these advantages is especially desirable in coal mining operations.

well as the standard content of the securing of a permanently settled and superior class of workmen.

The attainment of these advantages is especially desirable in coal mining operations, nearly 70 per cent. of the current expenditure being absorbed in wages for work which, from its nature, must necessarily be under imperfect supervision.

Each share will carry one vote.

The acting partners of the present firm will retain the management of the business on the same terms as heretofors, consulting from time to time with the directors.

The projectors of the company reserve to themselves the right of withdrawing the scheme, unless at least 1000 of the disposal shares be subscribed for before the slat of December, 1864.

Prospectuses and forms of application for shares may be had of Henry Briggs, Son, and Company, Whitwood Colliery, near Normanton, or Outwood Hall, near Wakefield, to whom all applications for shares, with remittance of deposit, must be addressed, not later than December 31, 1864.

In case no share be allotted to any applicant, the amount of deposit will be returned in full, but without interest.

If the shares allotted to any person shall be less than the number be has applied for,

If the shares allotted to any person shall be less than the number be has applied for, the surplus deposit money will be taken in reduction of the sum disc on allotment. In order to enable any of their workpeople to take advantage of the opportunities that offered of investing their savings, the founders of the company are willing to make arrangements with them for the gradual payment of the calls by weekly instalments.

RECEIPT FOR DEPOSIT

(To be returned to, and retained by, the applicant.)

Received of the sum of pounds shillings, being a deposit of 16s. per share on ahares in the proposed company, to be entitled "Henry Briggs, 50s, and Co. (Limited.)"

ON THE STEAM GENERATING POWER OF MARINE N THE STEAR TOWNS AND LOCOMORIVE ENGINES.

By CHARLES WYE WILLIAMS, Assoc. Inst. C.E., Assoc. Inst. N.A.,
Author of the "Combustion of Coal Chemically and Practically Considered."

London: E. and F. N. Spon, 16, Bucklersbury.

Now ready, price 2s. 6d., by post 32 penny stamps,

R. HOPTON'S NEW WORK, entitled

CONVERSATIONS ON MINES, &c., BETWEEN "A FATHER AND SON."

Thirteen plans on ventilation and working out coal, dialling, planning, and taking the
dip and rise of the mine illustrated.

Address Mr. J. J. Camprell, Cropper's-hill, St. Helen's; or the author, 73, Psizestreet, St. Helen's.

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osit of 10s. briggs, Son,

ARINE

Rotices to Correspondents.

THE SLATE TRADE.—In next week's Journal we shall publish the first of a series of papers on Slate Quarries as an Investment.

RED OXIDE OF IRON PAINT.—Would any reader kindly inform me how I can obtain in formation as to the manufacture of red oxide of iron paint; where it is manufactured and from what class of ore it is made?—GLasoow.

and from what class of ore it is made?—GLASGOW.

THE COAL TRADE IN AMERICA—EMIGRATION.—In last week's Journal I observe an advertisement, in the form of a letter, offering very tempting wages to our miners. For anght I know to the contrary, Mr. Gemmell's offer may be perfectly genuine; but, bearing in mind the case of kidnapping for the army of the Northern States of America, now under examination before the magistrates of Liverpool, I think it only right to request the miners of Great Britain to use great caution, and to make full equity of respectable persons, before they enter into any engagement with agents for or from America.—Cavero : Nov. 21.

WEST BEAM.—Will some one interested kindly inform me why there have been no re ports in the Journal lately from this mine? I am a large shareholder therein, an know not what is doing.—H.

ports in the Journal lately from this mine? I am a large shareholder therein, and know not what is doing.—H.

Misting in Mirland.—I was recently travelling in the south-west of Ireland, and during my journey visited Crookhaven, Schull, Skibbereen, and other places. When in Schull I was surprised to learn how things in Schull Bay Mine are allowed to remain. In the beginning of this year it was decided to wind-up the affairs of the company, and a Mr. Hollah was appointed liquidator; and I believe if the property had been fairly disposed of there would have been something returned to the shareholders; but, from some cause or other, it now appears that there may be nothing whatever left after the expenses are paid. Surely some information should be communicated to the shareholders, that we may know how things are progressing, especially as I have heard it was not all unlikely a cail may be made.—A SHAREHOLDER.

HINGSTON DOWN —Mr. Laws begs to acquaint "Shareholder" that he has never refused to reply by letter to any reasonable questions asked by adventurers respecting the mines in which they are interested.—50, Threadneedle-street, London, Nov. 25.

THE DERPET MINING WORKS—"G. G." (Manchester).—The name of the deepest pit was stated in the Journal of Nov. 5. We are not aware that 1000 yards has ever been reached, except at Charlerol, where there are pits of 1000 metres. There are no statistics of temperature published; but for some weeks past the subject has been referred to in letters from correspondents. Nothing has yet been stated which proves there to be any gradual increase of heat in descending, since the deepest mines are not always the hottest.

THE COAL OWNERS AND THE MINERS.—We cannot publish the letter of "Miner" (Wigan).

THE COAL OWNERS AND THE MINERS. - We cannot publish the letter of "Miner" (Wigan) HISTORY OF MINING.—"R. C." (Liverpool).—The work which would best suit "R. C. is, we think, Spargo's "Statistics of and Observations on Mining," the price of which is 5s. It can be forwarded from our office on receipt of 5s. 2d. in postage-stamps of otherwise, for the book and postage.

COKE-OVENS.—"Coke" will find ample descriptions of coke-ovens and coking in Ure's
"Dictionary of Arts, Manufactures, and Mines," vol. 1, and Percy's "Metallurgy,"
vol. 1. We know of no separate pamphlet on the subject; but there was a paper read
before the South Wales Institute of Engineers, which might, perhaps, be obtained
from the secretary for a few shillings.

THE MINING JOURNAL Bailway and Commercial Gazette.

LONDON, NOVEMBER 26, 1864.

Although Metalliferous Mines are free from the danger of the explosive gases met with in collieries, it appears, from the Report of the Royal Commission, that the casualties from other causes of accident are even more numerous in metalliferous mines than in coal mines; but the absence of numerous in metalliferous mines than in coal mines; but the absence of official returns upon the subject renders it difficult to make an accurate comparison. The principal causes of accident in metalliferous mines seem to be blasting, falling away from ladders, falling from one level to another, falls of the rocks, falls of stuff from the kibble, bursting of boilers, and abandoned shafts. Mr. W. W. TAYLOR stated that they had never had an accident occur from the man-engine. Capt. J. P. Daw did not think there was any danger of falling from one level to another with ordinary care. If a bunch of ore be found, they drive on the level, and sink down after that. There are many sinks made by the tributers in stoping away the ground which would be equally dangerous with the winzes, and more so. Dr. G. Smith did not think that the number of unprotected abandoned shafts was very great, and had never known a case in which a representation made to the proprietors of the mine, or the mine agents, had not been attended to.

mission, that the cassaties from other causes of accident are view more missed returns upon the subject readers it difficult to make an accarate the property of the subject readers it difficult to make an accarate to be blasting, falling wary from indeber, falling from one level to another, fallies of the recks, falls of suff from the kibble, bursting of boilers, and abandoned shafts, Mr. W. W. Taxton stated that they had never he had abandoned shafts, Mr. W. W. Taxton stated that they had never he had abandoned shafts, Mr. W. W. Taxton stated that they had never he had not have a supplementation made to be proprised placed proposed of falling from one level to another had not have a supplementation made to depend the proposed which would be equally diagnerous with the winnes, and more doned shafts was very great, and had never known a case in which a presentation made to the proprisers of the mine, or the mine against, had not the proposed of the state of the state

Northern Coalmasters' Association, has been formally laid before the North of England Institute of Mining Engineers. The report is very interesting as containing the explanation of Messrs. RICHARDSON and BUNNING for the fact that in the practical trials the Newcastle coal proved 25 per cent. less valuable than in their private experiments. The report now under consideration has been prepared with the utmost skill, and clears up many of the minor points of the Government report which were not altogether intelligible. Messrs. RICHARDSON and BUNNING appear to consider that to burn North Country coal as a steam fuel the heating surface of the boiler should be about twice the size of that which is generally required when South Wales coal is burned.

boiler should be about twice the size of that which is generally required when South Wales coal is burned.

The boiler employed at Keyham adhered in its general proportions to the Admiralty formula—66 ft. grate to 16 ft. of tube per horse power—but had 50 per cent. less combustion chamber, and less than half the heating surface of the boiler used by Messrs. RICHARDSON and BUNNING in the Newcastle experiments; which would lead to the conclusion that much more space must be occupied for North Country coal than for South Wales coal. With regard to the coal used in the trials, Messrs. RICHARDSON and BUNNING assert that the coal used to represent North Country coals were called West Hartley, but they had evidently been long wrought, were very dull, and far from being well cleaned. In fact, they were by no means a fair sample of the steam coals generally supplied from the North Country collieries. This opinion may, or may not, be accurate, but it certainly appears strange that coals specially suppled for competitive trials should be below the fair general average. Again, the reference to the draught causing inconvenience when Hartley coal was used had better, probably, not have been made, since the experiments being made with North Country and with South Wales coal under similar circumstances, coals of equal quality would have Wales coal under similar circumstances, coals of equal quality would have

It is explained that the calorific power of the Hartley coal was less at

Keyham than at Elswick, owing to the cinders being burnt at the latter place, and that the evaporative power of the Welsh coals was superior, partly because the samples were of a better quality than the North Country, and partly on account of the more rapid combustion of the latter coal. The fact that Hartley coals give more than six times the smoke of Welsh, and yet that a mixture of the two burnt almost without smoke, is recorded; and the practice on board the Prince Jerome is then given—for ordinary steaming, they use one-third Newcastle and two-thirds Cardiff; for high speed, half of each; and for great speed, all Newcastle.

With regard to the weathering of the coals, which is without doubt an important consideration, Messrs. Richardson and Bunning naturally pronounce an opinion in favour of North Country coal—attributing the chief injury to coal to arise from the presence of brasses. They state also that after each experiment the tubes and smoke-chamber were examined and cleaned. When Hartley coal was used the deposit was chiefly soot, but with Welsh coal it consisted of minute particles of a material having the appearance of coal; upon analysis, however, it was found that the Hartley refuse contained 42.79 per cent. of carbon, whilst the Welsh contained 36.28 per cent. only, the difference thus being more than 15 per cent. in favour of Welsh. It must be particularly gratifying to the North Country owners to find that, although the results were less favourable to North Country coal than they could have desired, there is evidence of the utmost impartiality having been shown, since even with Hartley coal the Government stoker obtained better results than those obtained with similar coal by the stoker specially sent by the Coalmasters' Association.

In another column of this day's Journal we publish an interesting article on the properties and uses of Magnesium, and although hitherto the metal has only been employed as a source of light, it is confidently anticipated that it will ultimately be produced so cheaply as to admit of its application to general industrial purposes. The process by which Mr. Sonstand produces the metal is, as has already been explained in the Mining Journal, assimple as it is ingenious. The lumps of the carbonate of magnesia are placed in large earthenware lars with a quantity of muriatic acid. The solution thus obtained is drawn off when clear, and mixed with a solution of chloride of sodium, on potassium. This mixture of magnesium and the alkaline chlorides is subjected to heat in porcelain basius until the moisture is evaporated. The dried mass remaining is fused in a platinum crucible, and when poursed out is technically known as "material." To deal with this a furnace is required, and the aid of acidem, which has aiready enabled chemists to obtain one of the latest metallic contributions to civilisation—namely, aluminium. So important is the part played by sodium, that spon its price almost entirely depends the cost of magnesium. To make the latter cheap enough to be generally useful, it will be necessary to discover some less expossive mode than the present of obtaining sodium, and this it is to be hoped will be done shortly. The material is submitted to heat in an iron crucible to liberate the magnesium. The metal thus obtained is still unfit for commerce, being brittle and unworkable. It is purified by distillation in closed vessels, somewhat upon the principle of mercury distillation from cinnabar. The finished metal is brought into the form of wire, in which state it has alone been used bitherto, by forcing through a small orifice by hydraulic pressure. Inasmuch as sodium and magnesium are not unfrequently found in see water in proportion which would not be inconvenient in the manufacture of magnesium, it is to be hoped t

COAL-CUTTING MACHINERY.

M. Guillaume Lambert, the eminent Belgian engineer, in a pamphlet just addressed to the Belgian Council on Mining, containing accounts of all the improvements which have been introduced into the art of mining, makes the following observations on the subject of Coal-Cutting Machinery:—

bers of the Committee of the Collieries of the Department of the Centre.)
We will now report some other experiments, which confirm, to a certain extent, that which I have mentioned, and which, in other respects,

We will now report some other experiments, which confirm, to a certain extent, that which I have mentioned, and which, in other respects, prove that the cutter works very regularly.

The Institution of Mining Engineers of the North of England, at their sitting of Feb. 5, 1863, heard the reading of a report, which had been addressed to it by some of its chief engineers:—Messrs. John Daglish, Lindsay Wood, Forster, and Cochrane, on the machine for coal-cutting, of Messrs. Donisthorpe, Firth, and Ridley. The following is a statement of the principal facts related in this report. Five experiments have been made by these gentlemen, with the hewer or mechanical pick, in the pit at West Ardsley, near Leeds, and these are the results:—
First Experiment,—Length of face of coal 10 yards. A groove was cut to a depth of 38 in. in 224 minutes—that is, 1 yard in 24 minutes, not including stoppage for drawing back the machine.

Third Experiment,—Length of face of coal 15 yards. A groove was cut to a depth of 37 in. in 59 minutes—that is, 1 yard in 3.3 minutes, not comprising stoppages for bringing the machine back, changing the picks, &c. As these stoppages lasted in all 10 minutes, the work done was 1 yard undercut to a depth of 37 in. in 38 minutes.

FOURTH Experiment,—Length of face of coal 35 yards. A groove indercut to a depth of 37 in. in 38 minutes.

was cut to a depth of 37 in. in 2 hours 45 minutes-that is, 1 yard in

4.7 minutes: this time included stoppages.

Fifth Experiment.—Length of face of coal 431 yards. A groove was cut to a depth of 371 in. in 2 hours 37 min.—that is, 1 yard in 3.6 min.,

FIFTH EXPERIMENT.—Length of face of coal 43½ yards. A groove was cut to a depth of 37½ in. in 2 hours 37 min.—that is, 1 yard in 36 min., including stoppages.

Admitting the duration of stoppages in the second experiment as in the others, a medium rate of working is arrived at of 1 yard underent to a depth of 37 in. in 3.6 min., this comprises the time taken up with stoppages. This brings us back to 1 yard along the face undercut to 0.95 in. in depth in 3.93 min.—call it 4 minutes. (According to this the machine could replace 12 men.) Thus these figures perfectly agree with those mentioned before, and relative to the experiment in which I had assisted.

The English engineers terminate their report by judiciously mentioning that the employment of these machines must bring some amelioration in the ventilation of the workings, and in saying—"It is also very certain that, especially in thin seams, the introduction of these machines will relieve the miner of the hardest, most exhausting, and the most monotonous part of his work." From other reports of Mr. J. Hedley, Government Inspector of Mines, and of many English engineers, about this machine, all come to the conclusion, that before having seen the machine at work they were prejudiced against it, but have since changed their opinion.

From reports which I have just received from another mining inspector it seems that its introduction into the mines of the North of England makes great progress. As it can work as well in seams of ½ yard in thickness as in those of 1½ yard, one can understand that its employment will actually be of greater advantage in Belgium than in England.

In certain cases the great inclination of the seams, and the small resistance of the roofs, considerably increase the difficulties; but there is no doubt that, from the moment that the coal-cutter shall have been advantageously introduced in seams which are level, and having good roofs, it will spool penetrate into the inclined seams, and everywhere. It will, probably, have to undergo some mo

great interest which is there taken in it.

TRIAL OF A NEW MACHINE FOR GETTING COAL,—A coal-cutting machine, on an entirely new principle, the invention of Messrs. Lock and Warrington, colliery owners, Kippax, and Messrs. Carrett and Marshall, engineers, Leeds, has been tried at the Kippax Colliery, near Leeds, in the presence of a number of colliery owners and mining engineers, including Messrs. Embleton, Morton, Pope, Rayner, Parker, Pickersgill, and other gentlemen. The trial, in every respect, was perfectly successful, and every gentleman present expressed his satisfaction at the manner the machine performed its work. The coal-cutting machines which have been tried recently in other districts have been worked by compressed air and on the principle of the pick motion, This machine is, however, worked by water-pressure, at 150 lbs. to an inch, conveyed in 1½-in. wrought-iron pipes from a small engine fixed near the bottom of the pit. The trial was made in the Allerton seam of coal, which is 5 ft. 6 in. thick, but contains a layer of dirt 3 in. thick, at the height of 29 in. from the floor, which separates the best and seconis seams of coal. The machine was mounted on four wheels, and traversed on the ord tranways. The "holing," or "baring," which is the hardest and most laborious part of the collier's work were fixed in a slotting-bar, worked with a steady longitudinal releprocating motion at a slight angle, which ripped out the whole of the partition of dirt to a depth of 3 it. 3 in. The apparatos being entirely self-acting in all its operations, it propelled itself forward, secured itself doad fast between the floor and root, whilst the catters were in operation, and again released itself with the return stroke. The machine is strong, and not at all complicated, and is likely to work with durability. It is beautifully arranged in its various movements, and works with such precision and exactness that anyone might almost fancy it was enough to self-acting in all its operations, it propelled itself forward, s

ON THE APPLICATION OF IRON TO THE PURPOSES OF WAR AND NAVAL CONSTRUCTION.

ON THE APPLICATION OF IRON TO THE PURPOSES OF WAR AND NAVAL CONSTRUCTION.

The Duke of Somerset, First Lord of the Admiralty, presided at a crowded meeting at the Society of Arts, on Wednesday evening, when an important and elaborate paper on the structure of iron ships, as well for the purposes of trade as of war, was read by Dr. WILLIAM FARBAINS, C.E., of Manchester. The paper described the early attempts at the use of iron for the purposes of navigation on canals, and illustrated the vast progress it had made since the commencement of the present century, the distinguished name of the writer being associated with the numerous and vast improvements which have taken place. The main apparent object of the writer, who brought to the consideration of the subject vast experience and experimental researches, was to impress upon naval architects the necessity of imparting to iron ships far greater strength than has been usually employed in their formation. He illustrated his observations by diagrams and by tables, and deduced some conclusions from which their presumed durability may be estimated. The subject of iron plating for the purposes of war necessarily formed an important element, although it was difficult in the present state of our knowledge definitely to come to any decided opinion on that all-engrossing topic. Dr. Fairbaira pledged himself, however, within a short period to present his views to the public, and to invite discussion, in the hope of settling, both theoretically and practically, some of the disputed points on that question. Much of the paper was technical, and related to the relative merits of punching and drilling through iron-plates. On the whole, Dr. Fairbairn gave the preference to the system of punching, not by the sledge-hammer, which was constantly used with far more exertion of muscular strength than of brains, but by the improved machinery for that purpose. Mr. Hawkshaw, C.E., gave the benefit of his great experience in favour of the drill. Mr. Grantham intervened between his two fri

attention of naval architects had never been sufficiently devoted, although its importance must be obvious, as well in a scientific as in a practical view. As fouling formed the most formidable objection to iron ships, and as all As fouling formed the most formidable objection to from ships, and as all efforts to prevent the galvanic action of sea water had hitherto failed, suggestions were strongly urged by Mr. Grantham, as a means of meeting the difficulty, that the frames and bodies of ships of war should in every instance be made of iron, with an outward planking of timber, so as to admit of their being coppered. This proposition was met by Capt. Selwyn, R. N., who asserted that modern shells would speedily set timber planking on fire, and that the attendant volumes of smoke would render the working of the and that the attendant volumes of smoke would render the working of the guns impossible. It was also asserted that, so mysterious was the secret action between metallic bodies, which asphalt had hitherto failed to check, fouling would not be prevented by even wooden planking and copper sheathing. Mr. Rochussen observed that Westphalian iron bore a greater strain than any of the kinds of English iron which had been enumerated, and suggested that steel might be advantageously used in the framework of men-of-war. On the whole, opinions seemed to diverge on every branch and roging of the greating.

men-of-war. On the whole, opinions seemed to diverge on every branch and point of the question.

The Duke of Somerset, in closing the discussion, observed that the Board of Admiralty had been called upon from all quarters to build iron ships of war; they had yielded to the pressure, and had produced splendid models, objects of general admiration. He was far from saying that they had approached perfection; he had hoped that after this discussion he could announce with confidence to his colleagues that the question had been settled. The present discussion had, however, dissipated all his hopes, for the opinions of the highest authorities in every respect disagreed. The increased powers which improved ordnance were everywhere exhibiting tended still more to unsettle the question, and the present discussion, although it might terminate without any decisive result, could not fail in the end to be be-

neficial. There seemed to be a general concurrence that iron was pre-ferable to wood as a material for shipbuilding, both as to strength and durability, and he could promise, on the part of the Government, that the subject should receive the utmost attention.

REPORT ON CORNWALL AND DEVONSHIRE. [FROM OUR TRUBO CORRESPONDENT.]

Nov. 23.-I have generally remarked, in a good deal of knocking about the world, that nothing in the whole range of British industry is more striking to foreigners than Cornish mining. Its immense antiquity, the comparatively narrow space (in West Cornwall particularly) to which it is limited, its periodical decay and revival, and the endless resources it exhibits by continual new discoveries in mines and districts supposed to be exhausted, appeal to the imagination of those at a distance in a manner difficult for us on the spot to comprehend. Your "wonderful Cornwall" is a general expression; and certainly the ups and downs of the various districts in the county are often more like romance than real business facts. Of late years—since the capital for working Cornish mines has been, to a great extent, drawn from beyond the county—the ups and downs of districts have been even more violent than formerly, one or two, fashionable for the moment, being almost the exclusive receptacles for public investments, at least in new mines. Indeed, the word "fashionable," as applied to such districts, is the most expressive we could use; for in their rise, in their decline, and in their feverish existence, the whole partakes more of that unaccountable element of caprice which directs, and ever has directed, the unreasoning but irresistible power we call fashion—a power which, in many of its vagaries, the whole contemporary world has been unanimous in condemning, and yet, by some strange spell, has been powerless to resist. Fancy as few years ago trying to start a mine in what is now called the Chiverton district? It would have been considered the height of madness; and yet, on the strength of one good bunch of ore, which is not a novelty in the district—for a bunch of ore, probably as good, was worked in the adjoining mine—the whole neighbourhood is positively bristling with engine-stacks. I could, looking back for the last 20 years, give a dozen instances of similar rises, generally followed, unfortunately, by a short feverish existence, and an equally sudden decline.

Now, although I, in common with everyone who has the real interest of Cornish mining at heart, striking to foreigners than Cornish mining. Its immense antiquity, the emparatively narrow space (in West Cornwall particularly) to which it

for other considerations than their intrinsic merits. Mines that require the immediate erection of a great plant of machinery, and involve a large consumption of fuel, naturally receive the preferential support of those influential and highly respectable firms interested in the manufacture of machinery and the importation of coal—the latter being generally considered the most securely profitable business in Cornwall. Now, the great mass of money lost in Cornish mining (that is, in the working of mines—I bar share transactions) during the last 20 years has been such in mines of this class—mines which require an outlay of from 50,000£ to 100,000£ to clear out the old workings and commence at their bottom (probably 150 fms. or 200 fms. deep) the search for new metalliferous deposits. Great Wheal Alfred, Tywarnbaile, Great Wheal Busy, and, above all, the old mine of Great Wheal Vor, are only among a few of the most conspicuous instances of this class of failure; indeed, since the late Mr. John Taylor opened up with such magnificent results the old mines worked under the names of the Consolidated and the United Mines, no decided success has attended the re-working of any deep old mine in Cornwall, and the only experiment of the kind now being made in the county is at Crenver and Wheal Abraham. If even half the millions sunk in these old mines had been judiciously expended (as Cornishmen well know how to spend money when they have not some more powerful motive to spend it otherwise) on new ground, can anyone doubt that the result must have been the discovery of numerous Setons, South Caradons, and Wheal Metals? It cannot be doubted that such must have been, in a great measure, the result; and, therefore, the working of a lot of new mines; is in itself what is most to be desired. The such must have been, in a great measure, the result; and, therefore, the working of a lot of new mines is in itself what is most to be desired. The

working of a lot of new mines is in itself what is most to be desired. The only misfortune is that it seems as if the public will only find the money for such concerns under the stimulus which creates a fashionable district, and which absurdly and unreasonably accumulates for the moment in one small region a dozen or so trials, where two, or at most three, would be sufficient, and thus starves other parts of the county. I suppose such a result is inevitable while public money flows into Cornish mining through its present channels, but certainly it is none the less to be lamented.

No more remarkable illustration of these facts is to be found than in the Wheal Vor district. I do not at the moment recollect the exact amount that was lost in the old mine, but I suppose it was at least 200,000*l*.; and it must be remembered that that sum was sunk and wasted in direct opposition to public opinion in Cornwall, which from the beginning was dead against the experiment. Suppose that money had been spent in efficient trials of the comparatively new ground of the district, can anyone question that several important discoveries besides Wheal Metal would long ere this have been made. At the present moment the splendid results of that several important discoveries besides wheat Metal would long ere this have been made. At the present moment the splendid results of Wheal Metal scarcely recoupe the shareholders in the Wheal Vor Company for their losses in the old mine; but how magnificent would have been their success if their energies had been originally directed, as they should have been, to the comparatively virgin mine of Wheal Metal. In the first place, they would have saved the loss of 200,000£, which is now a dead weight standing against them in their capital account; in the second have been, to the comparatively virgin mine of Wheal Metal. In the first place, they would have saved the loss of 200,000L, which is now a dead weight standing against them in their capital account; in the second place, Wheal Metal would probably have been in the height of its prosperity when tin was 40L per ton higher than it is at present. On the returns which the mine would have made under those conditions it is not too much to estimate that the difference would have been 25,000L or 30,000L a-year extra profit to the shareholders beyond what they can realise under present conditions and prices. Taking this at only 100,000L extra on the value of the mine, and allowing for interest of money, the working of the virgin ground in their sett (instead of the old mine) from the beginning by the Wheal Vor Company would have made a difference to them of certainly not less than 400,000L, and probably half a million. And this is what they would have been unanimously recommended to do by everyone in the county whose opinion was worth having, if they had tuken the trouble to be properly advised. It must be quite understood that those at present engaged in the management of Wheal Vor are in no respect responsible for this disastrous mistake; on the contrary, the vigorous working of Wheal Metal, and the rescuing of the concern from being the most total disaster that ever occurred in Cornwall, is due entirely to the remarkable judgment and indomitable energy of Mr. Noakes. He saw the mistake that had been committed, and set himself to work, even at the eleventh hour, to remedy it, amidst a mass of difficulties almost unparalleled, and it is only due to him to state that at the time his efforts were generally looked upon as quixotic, for it was almost universally con-

paralleled, and it is only due to him to state that at the time his efforts were generally looked upon as quixotic, for it was almost universally considered to be then too late to remedy the evil that had been done.

But Wheal Metal does not stand alone in this district as an instance of neglected, or rather delayed, opportunities. Considering what it has done, I have always looked upon the district as an unfairly neglected one, for certainly the new trials in it have been most feeble and fainthearted, forming a remarkable contrast with the energy and determination which have proved so successful in the great districts of Camborne, Illogan, Redruth, and Gwennap. The Wheal Vor district occupies the killas basin between the granite of the Tregonning Hill and of the Carn Menelex range; but not more than a third of this basin has yet been fully explored. Notwithstanding the great success of the mines extending from the foot of the Tregonning Hill east to the valley forming the boundary of the parish of Breage, which is about the centre of the basin, no really vigorous trials have been made in the eastern half of this basin, extending from the valley to the other granite range, although the continuations of the ous trials have been made in the eastern half of this basin, extending from the valley to the other granite range, although the continuations of the lodes are traced under precisely analogous geological conditions. I myself can see no reason whatever why this eastern portion of the basin should not prove at least approximately as successful as the western portion; and a proper and vigorous working—such a working as Wheal Metal has received within the last four years—must, I think, bring about some such result. Just in the bottom of the valley I have mentioned as forming the boundary of the parish of Breage, the country is broken up by one of those great cross-courses which mark all important metalliferous districts; and at the mine now called Sithney Wheal Metal, but formerly Sithney Wheal Buller, there has been a remarkable want of judgment Wheal Buller, there has been a remarkable want of judgment

shown within the last few years by persistently confining the operations of the mine to sinking in this obviously unproductive bar of ground.

It is a remarkable fact that a similar mistake was made at the Carn Brea Mines, in their former working, where operations were also confined to the mere sinking of a shaft, which, happening to go down in one of those poor bars of ground found in all great mining districts, led to the abandonment of the mine, although, as was proved afterwards, if the levels had been extended properly, one of the most magnificent mines ever discovered in Cornwall would have been met with. Four or five years ago Wheal Vor Company held a large interest in Sithney Metal, and when Mr. Noakes took the reins in the former concern he wished to work the latter by vigorously extending the levels east. This, however, did not happen to suit the other extending the levels east. This, however, did not happen to suit the other shareholders, who belonged to that class whose business it is to sell mines, and not to mork them, and his counsel was overruled. On this he preand not to mork them, and his counsel was overruled. On this ne prudently retired, and the result was that the mine soon changed hands. Under the new proprietorship the policy of mere sinking, and hanging on to the skirts of Wheal Metal, was long persevered in, and it is only recently that a sound policy of working has been adopted. That this sett, in due time, will bring results worthy of its name and neighbourhood I do not myself for one moment doubt.

But the most important virgin ground in the district is the large sett

myself for one moment doubt.

But the most important virgin ground in the district is the large sett (formerly two setts) now working as East Wheal Vor, comprising nearly the whole of the eastern half of the basin, and occupying precisely the same position, with regard to the granite hill bounding that side, as Great Wheal Vor does to the Tregonning granite. It includes all the lodes of Old Wheal Vor, as well as those of Wheal Metal, and the result of the sound and viceorous working it is now receiving it to be lacked for with result. wheat vor, as well as those of Wheal Metal, and the result of the sound and vigorous working it is now receiving is to be looked for with great interest. This sett has, no doubt, been scratched about and played with for a long time—treated, in fact, as Wheal Metal was until within the last four years—but it has never yet received such handling as could, except by an extraordinary accident, be expected to lead to any useful result. It now, however, seems to be provided not only with a good plant of materials, but with an ample paid-up capital; and certainly its chances at the present moment are infinitely better than those of Wheal Metal four years ago. If the analogous geological conditions under which the same lodes occur on both sides of the basin forming the Wheal Vor district should lead, as may certainly be fairly expected, to anything like analogous results. ago. If the analogous geological conditions the Wheal Vor district should lead, as may certainly be fairly expected, to anything like analogous results, then, indeed, East Vor, containing, as it does, the eastern continuation of the best known productive lodes of the district, has a future before it not easily to be matched. It is to such mines as these—wirgin ground well situated—that, in the best interest of Cornwall, the capital and energy of legitimate mining enterprise should be directed. The public cannot go very far wrong in them, for although, of course, they cannot all succeed, yet a sufficient number to give a splendid result, on the whole, have never yet failed to do so. Investors have only one danger to avoid in such concerns, and that is not to pay too dear for them. As I have many times pointed out in these columns, the most promising, or even the richest, of mines may be bought too dearly. nes may be bought too dearly.

REPORT FROM MONMOUTH AND SOUTH WALES.

Nov. 24.—The Iron Trade of the district remains in about the sam state as reported last week, and there is a large business doing. Maker are fairly off for orders, but the tendency of the market is rather in favour are fairly off for orders, but the tendency of the market is rather in favour of buyers within the past week or ten days. Tin-plates have not improved, and many of the charcoal makers are indifferently supplied with orders. Steam coal is in brisk demand, and the collieries are in regular employ; house qualities are also in fair demand. The preliminary arrangements have been concluded for an amalgamation of the Vale of Neath undertaking with the Great Western Railway Company. The terms agreed upon are payment of a dividend at the rate of 5½ per cent. per annum on the ordinary capital, and participation in the profits over and above the payment of that dividend. Some of the Vale of Neath shareholders are against the proposed union, and it appears that an energetic effort is to be made to defeat the amalgamation bill.

The Governor and Company of Copper Miners in England have given notice of their intention to apply for powers in the next session to alter and amend the stock and share capital of the company. It is proposed to cancel the ordinary stock, and in lien thereof to create and issue new stock or shares to a smaller nominal amount, to rank parsi passu with the preference shares, as affected or altered by the said Act; also to convert into shares or steck in the company, ranking parsi passu with the preference shares, as affected or altered by the said Act; also to convert into shares or steck in the company, ranking parsi passu with the prefer-

into shares or stock in the company, ranking pari passu with the ence shares, certain arrears of dividend now due and owing to the h

ence shares, certain arrears of dividend now due and owing to the holders of preference shares.

The dispute between the Water Company at Merthyr and the ironmasters has at last been arranged by a compromise. The Water Company have agreed to let 105 cubic feet of water per minute flow over the gauge into the river, instead of 90 cubic feet, as directed by the original Act. These terms will, it is believed, prove satisfactory to all parties concerned. The arrivals at Swansea include—The Venturoza, from Lisbon, with 136 tons of copper ore, for Richardson and Co.; the Prudent, from St. Malo, with 238 tons of zinc ore, for W. Rowlands; the Aeron Queen, from Pomona, with 160 tons of sulphur ore, for Barry; the Malitoree, from Almeira, with 123 tons of zinc ore, for Richardson and Co.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 24.—The Iron Trade is quiet. The improvement in feeling, spoken of last week, is hardly maintained, and the orders to hand are not by any means large. Buyers are discussing the question of a reduction in the prices of iron at the Preliminary Meeting, next month, but the makers of iron do not admit that such a step is in any degree probable. The rate of wages is now so much higher in proportion to the price of iron than it has long been, that any downward movement in prices would be difficult, even if a reduction in proportion to it were made in wages. Pig-iron is selling a shade better, but there is no improvement in prices; mine hot-blast pigs may be quoted at from 3t. 10s. to 3t. 15s., the latter price being only obtainable for a few very choice brands; cinder pigs are sold at from 2t. 17s. 6d. to 3t., and are not in brisk demand. The Hardware Trades are generally quiet, but not depressed, and employment for the workmen is good. The foreign trade keeps quiet, but there is a fair home demand.

home demand.

This week there have been quite a series of sad fatalities in the mines of South Staffordshire. Reference was made last week to the dreadful accident at the Comberfield Colliery, near Dudley, by which eight men lost their lives from the breaking of a chain. The inquest on the deceased has been adjourned. The chain itself was all right. It has been tested, and found to bear a strain of upwards of 19 tons. Mr. Baker, the Government Inspector, has examined the place, and has pointed out what was clearly the cause of the accident. The frame which supports the pulley had sunk on one side, owing to a stratum of coal beneath being on fire. This was known, and measures had some weeks before been taken to re-This was known, and measures had some weeks before been taken to restore it to its proper position. At the time of the accident, however, the pulley over which the chain was drawn was considerably out of the perpendicular, and the chain in consequence, in the course of the revolution, caught on one of the bosses which are placed on each side the pulley to prevent the chain slipping off. After turning round for some distance the engineman saw that something was wrong, and stopped the engine, the engineman saw that something was wrong, and stopped the engine, the chain slacked, and fell on the square iron shaft on which the pulley turns. The edges of this are sharp, and cut and severed the chain. The adjourned industry will, no doubt, show who was responsible for the frame being out of the preparationic.

The edges of this are sharp, and cut and severed the chain. The adjourned inquest will, no doubt, show who was responsible for the frame being out of the perpendicular.

The neglect to take proper precautions in timbering was illustrated by a fatal accident, which occurred at Lord Dudley's Deepfields Colliery, on the 18th inst., in the thick coal workings, and by which John Richards, a boy, 14 years of age, lost his life. There were six pikemen at work in a stall, and the roof fell from a slip, killing the boy, but that part of the roof over the heads of the meremained firm, or their lives would also have been lost. The men were cutting the coal in a most reckless manner. The Chartermaster said that his instructions were to leave at least one "spurn" between each man's "stent," which would have given five prope, instead of which there were only two. Mr. Baker, the Inspector, as on many other co-casions, strongly urged the necessity of more careful timbering in working mines.—In another case Christopher Guy was killed, on Wednesday, at the Bowman's Harbour Colliery, in an ironstone pit. It is stated that the deceased was bringing a "van" along him. The mode of timbering was of a very improper character.—On Monday William Price, a sluker, working for Mr. Brewer, at Ryecroft, was killed by the collapse of a new shaft, which was being sunk through the sand. Preparations were being made for supporting the sides of the shaft, and the body could not be recovered for some hours.—At a pit belonging to the Blox wich Colliery a boy was drowned in thesump on the same day. It was fenced, and it is supposed had not be recovered for some hours.—At Messrs. Roberts and Yacdley's Colliery, Dariston, on the same day, an engineman, named William Bates, was found dead in the crank pit of a pumping-engine. The sence of an oil-cau that the deceased had gone there to oil the bearings. It was thought he might have been been atting on the rails, and fall, and was struck dead by the crank. When he was found the engine was standing.

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by a fall in an ironatone pit at the New Cross Colliery, near Willenhall, on Nev. 10. This makes 13 deaths from mining accidents in South Staffordshire within a week.

A very wise and benevolent project for the formation of a Colliery Accidents Relief Association, in North Staffordshire, has failed, through the indisposition of all but a few of the colliery owners of the district to give it their support. As will be remembered, upwards of 6000, was received from the surples of the Hartley Fund, and Mr. Smith Child promised to add 5000, to this if the coalowners of the district would contribute 12000., by which the trustees of the fund which would thus be formed would be enabled to invest a sum of 22000., the interest from which, it was calculated, would be sufficient to met the demands for relief arising out of coal pit accidents in North Staffordshire. The committee of the proposed association have extend themselves to the utmost to accomplish this very desirable object, but the majority of the coalematers show such apathy that the committee have at last been obliged to yield to the necessity of abandoning a project which at one time locked hord, and which, if carried out, would have been a permanent and never-falling source of relief to those who may by accident, while at work in coal pits, be deprived of the means of carning their own livelihood. This coarse was decided upon at a meeting of the committee, at Stoke-on-Trent, on Monday afternoon.

BIRMINGHAM, Nov. 24.—The reduction of the Bank rate of discount to per cent., announced here by telegraph to-day, has been hailed with much atisfaction, and cannot fail to give increased facilities for the establishment 7 per cent., announced here by telegraph to-day, has been hailed with much satisfaction, and cannot fail to give increased facilities for the establishment and conducting of local enterprises. The Iron Trade of this district exhibits but little signs of animation. Generally speaking, the middle of the quarter is almost necessarily a lifeless time; for whilst, on the one hand, the orders given out at the institute of the control of the co

REPORT FROM DERBYSHIRE, YORKSHIRE, AND LANCASHIRE.

Nov. 24.—There is a continued quietness in the Iron Trade. The time is fast approaching for manufacturers to take stocks of manufactured iron, and there is a general disposition amongst merchants to purchase only for and there is a general disposition amongst merchants to purchase only for immediate requirements. The pig-iron market is very quiet, and prices are unaltered. The rates for second-class iron are rather giving way, and needy makers do not hesitate to accept a reduction in prices. In the Cleveland district we hear of a brisk trade, and the export of manufactured pig-iron to France, Germany, and other states is improving. The demand for steel is still good, and in some of the manufacturing departments of the trade there is a greater demand than supply. For the colonies there is a steady enquiry for all descriptions of goods. The Bessemer steel, so much adapted for railway purposes, is in great request. In some of the districts the railways are unable to carry the quantity of goods which are manufactured. It was reported sometime ago that the furnaces of Messrs. Beale and Co., of Newbold, would be put out of blast altogether, and the plant removed, owing to the termination of the lease; but we hear that Mr. and Co., of Newbord, we have the termination of the lease; but we hear that Mr. Plevins, of Dunstan Collieries, has entered into partnership with Messrs.

removed, owing to the termination of the lease; but we hear that Mr. Plevins, of Dunstan Collieries, has entered into partnership with Messrs. Beale and Co., and that the furnaces will be put in blast again in a few weeks. At present they are under repair, and a new office is being built. The Coal Trade is exceedingly healthy, and there is a prospect of a brisk demand throughout the winter. Mr. Brown, of Chesterfield, and a partner in the Atlas Works, at Sheffield, has purchased a large acreage of coal in the Dronfield Yalley. The new line of railway which is about to be made from Chesterfield to Sheffield passes though it, and, no doubt, being near Sheffield there will be a good demand for the coal from that neighbour-hood. The surveys of the new line are in a forward state of progress, and in the course of a couple of years it will be opened.

A company is projected for the purpose of working the extensive collieries at Whitwood and Methley, near Normanton, Yorkshire, now carried on by the firm of "Henry Briggs, Son, and Co." It is originated by that firm with the primary view of securing the co-operation of all those connected with the collieries, either as managers and workpeople, or as customers, in the earnest hope of thus effecting a satisfactory solution of the difficult problem now so largely occupying the attention of political economists and philanthropists—namely, the best mode of associating capital and labour, and of preventing the occurrence of those trade disputes which so frequently disturb the social relations of our country. The collieries comprise about 2600 acres, and are now in full operation, producing from 5000 to 6000 tons of coal weekly. The members of the existing firm will retain in their own hands two-thirds of the share capital, and in allotting the remaining one-third, a decided preference will be given to applications for shares,—first, from the officials and operatives employed in the business; and, secondly, from the purchasers of the produce of the collieries. for shares,—first, from the officials and operatives employed in the business; and, secondly, from the purchasers of the produce of the collieries. Surplus shares will be allotted among general applicants. The advantages anticipated are:—1. The attainment of a direct incentive to every worker, whether a shareholder or not, not only to do his own duty, but to see that his fellow-workmen do not neglect theirs.—2. The prevention of causes of dispute between the employers and employed.—3. The attaining of direct advantage to the operatives as well as the shareholders, from the adoption of improved modes of working, either by machinery or otherwise.—4. The securing of a permanently settled and superior class of workmen. The attainment of these advantages is especially desirable in coal mining operations; nearly 70 per cent. of the current expenditure being absorbed in wages for work which, from its nature, must necessarily be under imperfect supervision.

sult of the Ordnance Select Committee's experiments with chilled The result of the Ordnance Select Committee's experiments with chilled in shot must be very satisfactory to the Derbyshire ironmasters, Major Palliser having chosen Derbyshire hot-blast iron to make his improved shot for competing with steel. A round, chilled, Derbyshire hot-blast iron shot, weighing 103 lbs., was fired from the Somerset gun with a charge of 25 lbs. of powder, against the Lord Warden target, a spherical steel shot weighing 116 lbs., with the same charge of powder being tested against it. Notwithstanding the difference of weight the effects of the two shots were very nearly the same. both shots went completely through two shots were very nearly the same, both shots went completely through the 4½ in. iron-plates of the target as well as through 8 in. of timber backing, bulging up the second inner iron skin of the target. On the score of economy the chilled iron shot has many very considerable advantages as compared with steel—the material from which the steel shot is made costing 50L per ton, whilst that for the chilled iron shot can be had for 5L per ton. two shots were very D

501. per ton, whilst that for the chilled iron shot can be had for 54. per ton. I was glad to see, by last week's Journal, that at the Miners' Conference a resolution was unanimously passed in favour of the use of coal-getting machines, the resolution asserting that, in view of the fearful sacrifice of life in collieries, for the sake of humanity the sooner the machines are put in operation the better. The miners, they state, would then have an opportunity of devoting their valuable strength and lives to a much more healthy and safer employment. The miners evidently take a sensible view of the introduction of machinery into this most laborious and dangerous eccentricing.

of the introduction of inheritary and the Fence Colliery, near Rotherham, on Tustday, on Tussday morning, by an explosion of gas. It resulted in the death of one man
and the severe injury of three others. Owing to the good ventilation in the mine, the
lives of the rest of the men and boys (40) were saved, as they got into such parts of the
mine in which the current of air was good.

The applications for Letters Fatent include—Mr. J. Gaukroger, of Hebden Bridge, and
Mr. A. Gaukroger, of Hawksclough, near Hebden Bridge, for improvements in looms for
weaving; Mr. J. Griffiths, of Litchurch, near Derby, manager of ironworks, for improvements in machinery or apparatus to be used in the manufacture of iron and steel.

-Messrs. Crawhall, of Newcastle-on-Tyne, have just MONSTER ROPE. finished a hempen rope of gigantic proportions, it being the largest ever manufact in this district. The rope is constructed for a Liverpool railway incline, and may 2216 fms., or upwards of 2½ miles long, and weighs nearly 18 tons. It is what is or

11/240 30 207

a three-strand rope, each strand having 100 threads, and it will have a continual strain

UTILISATION OF BLAST-FURNACE SLAGS.

There is, perhaps, nothing that would prove a greater boon to the iron manufacturers of this country than the discovery of a really practical and economic mode of utilising the slags of blast-furnaces, by converting them into articles of a readily marketable character, instead of permitting them to remain, as at present, a positive encumbrance. That almost innumerable attempts have from time to time been made to effect this conversion must be well known to the readers of the Mining Journal, and most persons will remember the interest which attached to the very beautiful specimens of artificial marbles manufactured from blast-furnace cinders by Dr. Smith. from Philadelphia: but hitherto comparatively little has been must be well known to the readers of the Mining Journal, and most persons will remember the interest which attached to the very beautiful specimens of artificial marbles manufactured from blast-furnace cinders by Dr. Smith, from Philadelphia; but hitherto comparatively little has been done to apply the inventions and suggestions upon the regular working scale. For some time past, however, the attention of Mr. Gr. Parry, of the Ebbw Vale Ironworks, has been turned in this direction, and he has now patented an invention, from which the most successful results are anticipated. In preparing blast-furnace cinder for use, it has been usual to reduce the slag or cinder from the blocks (in which form it solidifies) to powder by means of stampers or mills, which process is very expensive, by reason of the power consumed in the operation. To effect an economy in the reduction of the slag or cinder, he proposes to apply below the shute or gutter, along which it runs from the furnace, jets of steam or superheated steam, or jets of air or water might be employed. The jets should take the form of a thin sheet, and be directed so as to strike into the descending stream of fluid cinder. The fluid cinder thus acted upon will be driven forward by the mechanical force of the jet, and be thereby caused to assume the form of threads as it cools in falling through the air, which threads by intermingling present an appearance not unlike coarse wool. By thus ensuring a very fine division of the cinder, he is enabled to reduce it to powder, by subjecting it to agitation in a barrel in contact with shot, or by any other ordinary crushing appliance requiring little power for working the same, or by simply ramming down the blown slag in the act of packaging it in casks or trucks for transport it will be sufficiently reduced for the purposes of manuring. The powdered slag or cinder may be used in the purposes of manuring. The powdered slag or cinder may be used in the pressure of from 10 to 12 lbs, per square inch sufficient for the purpos

seed, the object of the inventor being, as above indicate, to reduce the slag while in a fluid state by the mechanical action of an impelled current striking into the descending current.

When the jets and the pressure are properly regulated, the blown slag will be in a great part reduced to a fibrous state, resembling coarse wool, and it will, therefore, be liable to be carried away by any passing current of air. To prevent this, and more especially when jets of air are used to effect the reduction of the slag, it becomes necessary to form a chamber in the front of the blast-furnace to receive the fibrous material. This chamber should be of taper form, and may from time to time be emptied by a cradle or rake, as is commonly done in discharging coke ovens, or in any other convenient manner. The less reduced particles of the blown slag assume the form of shot, but less shot and more fibre is formed when the jets are properly regulated, which may soon be found by a little practice. When the reduced slag is intended for use as a manure for top dressings, it is evident it must be brought to a powder, but otherwise the blown slag may be dug or ploughed into the ground with little preparation. Mr. Parry's claim is for the disintegrating or breaking up of blast-furnace slag or cinder, by subjecting it while in a fluid state to jets of steam, air, or water.

or cinder, by subjecting it while in a fluid state to jets of steam, air, or water.

Manual of Chemical Analysis.—The immense importance to the chemical student of a thoroughly reliable text-book is universally acknow-ledged, yet hitherto almost every manual issued has been open to some very grave objection; either its accuracy has been doubtful, or some novel and questionable theory has pervaded it, or the work has been too complicated for an elementary work and too incomplete for anything else. We have now before us an admirable and compendous treatise by Dr. Noad, F.R.S., whose position as lecturer on chemistry at \$5t\$. George's Hospital is alone a sufficient guarantee for the character of the work. The subject is ably and systematically treated, whilst the language is such that the student will have no difficulty whatever in comprehending it. After a few general remarks, the various operations necessary in making a qualitative analysis—solution, precipitation, filtration, &c.—are described, and the relativements of the several kinds of laboratory furnaces and apparatus explained. A chapter on realents is next given, which well prepares the attudent for the consideration of the comportment of the principal metallic oxides with reagents, which occupies the succeeding chapter. By this means Dr. Noad is enabled to give almost as much information as the mining student is likely to require in less than 160 pages; and the comportment of the principal meanure of the principal metallic oxides with reagents, the comportment of the principal pisconous alkaloids, and a chapter on systematic qualitative analysis being then given, it will be obvious that by the careful study of the volume the difficulty of ascertaining the nature of the ingredients contained in a given compound may be easily overcome. But it is not always sufficient to know that a certain metal or other substance is contained—the practical man usually considers it of the utmost importance to know the quantity as well as the quality of the ingredients. Th

tage of the table apparent, we salphur is contained in 13-75 gut the improved table:—
WITH THE IMPROVED TABLE.
10: grains = 1-373400
3: grains = 0-422020
-7: grains = 0-096138
-05: grains = 0-006867 WITHOUT THE IMPROVED TABLE, Ba = 69.5 S = $16.0 \times 13.75 = 220$ O 4 = 32.0220 - 116.5 = 1.888412

Total 1 888425
It will thus be seen that the calculations agree to four places of decimals, which is ample for all practical purposes. Of the general accuracy of the book, indeed, no fault need be found, the few errata comprising only such clorical errors as even the least attentive student could readily correct for himself. The work is one which will doubtiess be extensively patronized, and one that is likely to pass through many editions as a standard manual for students.

GEOLOGICAL MAGAZINE. -The original articles in the November num-Webloofical Alacazine,—The Original articles in the November number of this periodical are—"On Involutina Liassica," by Mr. H. B. Brady; "Descriptions of some New Palsozole Crustacea," by Mr. H. Woodward; and "On the Laurentian Formation," by Dr. Bigsby. There are translations of Laube's Baculite Beds of North-Western Bohemia, and Marcou's Geological Researches in Nebraska. The reviews, reports, and proceedings of societies, notices of recent discoveries, and miscellaneous information, are quite as interesting as usual.

URE'S DICTIONARY OF CHEMISTRY.—The twenty-first part of the Chemical Dictionary, founded upon that of the late Dr. Ure, and edited by Mr. Watts, has been issued. The article now reached is that on "Liphe Acid," so that no doubt need longer exist that the work will be completed in the thirty-three parts, as promised. The article on "Light," contributed by Prof. Roscos, and contained in this and the preceding number, is one of the most interesting in the Dictionary, and is really an elaborate treation on the subject, displaying an enormous amount of research, as well as judgment in the arrangement. It may be mentioned that under the head of "Chemical Action of Light," the professor has included an admirable little sketch of the history of photography.

MANUFACTURE OF COMPRESSED FUEL.—An invention, which consists in an improved dryer required fordrying the coals before mixing the pitch as used in making compressed fuel, has been provisionally specified by Mr. John Grantham, of King's Arms-yard. The dryer is formed by one or more large cylinders placed horizontally, and surrounded by a brick fue, and heated by a frick lone, and the sted by a furnace from beneath. These cylinders by simple mechanical means are made to revolve slowly, exposing the whole surface alternately to the fire. Inside of these cylinders and attached to them are made spiral or inclined fanges, and at the ends are suitable boxes, into which the cylinders are fitted, so as to allow them to revolve while the boxes are stationary. Into one of these boxes the coal to be dried is placed, and it is thence passed through the cylinders, being moved forward by the spiral fianges till it reaches the box at the other end, from which it is drawn off when dy to be taken to the mixers. The second part of the invention consist of what is called a traveller, or elevator, placed

under the boxes, from which the dry coal is drawn; it is formed of a bollow trough, in which is a shaft and a screw, which being made to revolve convey the dry coal towards the mixes. At this point it may be necessary to add another elevator, to raise the coal into a chamber over the mixers, where the pitch or other material to be mixed with it is applied, thus saving labour, and preventing the dust which rises from the dry coal on its removal by the present system from the dryers to the mixers. The traveller, or elevator, may be formed by an endless band, having buckets, and by other well-known mechanical contrivances.

elevator, may be formed by an endless band, having buckets, and by other well-known mechanical contrivances.

Vancouver Coal Mining and Land Company.—The half-yearly general meeting of shareholders will be held on Taesday next, when the report of the directors, of which the subjoined is an abstract, will be submitted:—The manager reports continued progress of the colliery works and increasing settlements on the property of the company. The output of coal during six months, to June, 1864, was nearly double that for the corresponding period of the previous year. The competition of the 3ydney (Australian) coal and the Bellingham Bay (American duty free) coal at San Francisco has necessitated a reduction there in the price for Nanaimo coal. At Nanaimo prices are unchanged, and, with the increased machinery, the manager hopes to compensate for the decline in price at San Francisco by an increased output. The character of the company's coal is now becoming well known. The gold discovery on the Sooke River will, it is expected, induce the long-required immigration of the labouring population from California; but it has not caused any of the company's miners to leave. From the Victoria market being overstocked with similar goods to those sent out by the company, a large portion of the goods still remain on hand, and Mears. Waltace and Nichol have been instructed to take the first opportunity to dispose of the stock and close the store forthwith. In May last, 100 tots of land were sold by public auction for 46071, which, with 433, for other sales of town lots to employees, will be carried to the credit of the land mortages account. Although many of the lots were bought by the workmen and other recidents at Nanaimo, there were some Victorian purchasers; this is considered to justify the anticipation that the estate, independent of the coal sams, will eventually realise the whole of the purchasemoney. Mr. Nicol has been given leave of absence during the winter, the inclemency of the last having seriously affected his heat

the shareholders upon the present position of the property.

THE IRON OF LAKE SUPERIOR.—The discovery of vast deposits of iron ore near Goulais Bay, on the Canadian side of Lake Superior, is a matter of no ordinary importance. For some time it has been known that iron existed on Canadian territory, near Fort William, but the extent of the beds has not been made known by exploration, and their situation is not peculiarly favourable for working. The discovery of large quantities of orea the eastern end of Lake Superior, not far from Sault, within five miles of a good barbour, is a horse of an entirely different colour. We look upon every fresh discovery of mineral wealth upon the northers above of Lakes Huron and Superior as of an immense importance in reference to the question of north-western extension. It is useless to deny that the territory on these shores is not one peculiarly fitted to maintain an agricultural population. It does contain much good land capable of supporting a considerable number of presons, and its timber is in many places valuable. But its climate is ungenial, and its soil is neither so fertile nor so casily worked as the prairies of the West, with which it competes for occupants. It is plain that, if it is to be rapidly settled it must be by means of its mining riches. Copper, lead, and nickel exist in abundance, and no contemptible indications of silver have been found. Iron has been added to the list, an article which is likely to attract a larger population than any of the others, so wast is the quantity consumed.

MINING IN ITALY.—Under the title of the National Mining Company

attract a larger population than any of the others, so wast is the quantity consumed.

MINING IN ITALY.—Under the title of the National Mining Company of Lombardy, an influential Italian company has been formed for working the property at Bellabio, in the provinces of Como and Bergamo, reported upon by Mr. Geo. Darlington to a meeting of the promoters of the Mining Company of Italy (an account of which appeared in the Journal of Sept. 12, 1863), only some few handreds of the shares remaining unsubscribed. The report in question was of a very elaborate nature, but owing to the great elevation at which the minerals were situated English capital could not be obtained, and the company became defaunct. The consequence is that the Italians have decided upon working the mines themselves, being convinced that there are in Lombardy mines of silver-lead and copper orces of great richness. A society, under the title of the National Society of Mines in Lombardy, has been formed at Lecco and Minan by some of the most distinguished citizens of both places, and this society is prosecuting mining operations with great success, having in its possession some mines both of argentiferous galena and copper orc, of a very high percentage of metal in the ore. The aim of this National Society is to bring to light and put in regular course of working such mines as may be considered as unquestionably good in the Judgment of even the most rigorous critics, and afterwards to offer them for sale,&c., or work them in conjunction with foreign capitalists.

Mining in South Australia.—Upwards of 150 persons, consisting of

MINING IN SOUTH AUSTRALIA.—Upwards of 150 persons, consisting of iners and their families, have this week left Cornwall to work on the extensive copper ines in South Australia. The whole of the party received free or assisted passages after the Government system of emigration to Adelaide.

under the Government system of emigration to Adeliade.

NORTHUMBERLAND AND DURHAM MINERS' PERMANENT RELIEF FUND.

—On Saurday night last a public meeting was held in the school-room, Usworth Collery, for the purpose of establishing a branch society of the above fund. Mr. L. B. COZOO, chief viewer, presided. In his remarks he stated that he had watched this society from its infancy until the present time, and he could say that it was really a living fact. Mr. Henry Taylor addressed the meeting at considerable length upon the moral bearings of the fund. His address elicited much applause. Mr. John Richardson, of Newcastie, showed the benefits conferred upon working men by such a society. Mr. Alexander Blyth, the secretary of the fund, made a few practical remarks, pointing out that such a society was much required at Usworth Colliery, for the death rate was there higher than any in the county. At the close a branch society was formed, and nearly the whole of the audience became members. The colliery band was in attendance, and performed several popular airs. Votes of thanks to all parties concerned brought the meeting to a close.—Necessile Daily Chronicle.

ENGLISH, HRISH. AND FOREIGN ROLLING-STOCK COMPANY.—The die-

ENGLISH, IRISH, AND FOREIGN ROLLING-STOCK COMPANY.—The di-ctors have made a first call of 11, per share on the shares of this company. We are formed that the directors have made very satisfactory arrangements for the purchase Spring Hill Works, Birmingham, and will commence operations on Jan. 1.

PRICES OF MATERIALS,

And contiged at Elent Manualter mine during to	10 10		a vraft .	STATE OF THE PARTY		0.8	_
Description.	Ma	y.		June.		Jul	y.
Borer cast-steelPer cwt		-		-		45s.	od.
White lend "		-		-		24	0
Leatherper lb		-		-		1	8
Longsound timberper foo		s. 9	d	District		C	8
Yellow pine timber "		-		-		1	4
Coalsper tor	12	6		128.0	d	12	0
Best candles, free of carriage per doz	. 5	3		5 3		5	3
Pallow, dittoper cwt		9		-		45	9
Rape oil, dittoper gallor		-		-		4	6
Powder, dittoper 100 lbs.	. 46	0		-		-	
Safety fuse, dittoper coi	1 0	5		_		0	5
Rope, dittoper cwt		0		-		48	0
Hemp, dittoper lb.				-		0	6
White yarn, ditto	0	5	14	_		0	51/

HOLLOWAY'S CINTMENT AND PILLS—UNPARALLELED POPULARITY.—
The wonderful cures effected by these unequalied remedies in all parts of the world have
won for them their present favour. Both pills and cintment are composed of ingredients
which purify at the sauge time that they strengthen. No one can deny that health depends upon pure blood and the natural action of the animal organs. Both objects are
effected without risk or danger by Holloway's medicaments, which are as innocent as
they are potent. Internal disorders and external blemishes succumb to their power. remedies, so applicable for the railef of the commonest complaints, are no less ate to deal safely with the most formidable and dangerous disease which can mankind.

MINE PLANT AND MACHINERY.—WANTED, a WATER WHEEL, 34 ft. diameter, 5 ft. 6 in. broad with 16 hours. M WHEEL, 34 ft. diameter, 5 ft. 6 in. breast, with 16 heads of stamps attached 50 fms. 2 in. rods, 40 fms. 8 in. main sweep rod, pulleys, travelling bob and shaft, and balance-bob, together with 20 fms. of 12 in. drawing lift, all complete. If second-hand all must be in good condition and perfect working order.—State lowest price to "T. S. M.," 22, Nassau-street, Dublin.—November 24, 1864.

TO IRONMASTERS AND OTHERS.—A PRACTICAL CHEMIST, of great experience in the chemistry of fron, would be happy to MEET with an ENGAGEMENT in an IRONWORKS, where his knowledge would be of advantage.—Address, "V. 29," Manchester Guardian, Manchester.

FOR SALE, the MINING JOURNAL, complete and equal to new, from end of August, 1855, up to 1st January, 1864.—Address, "L.," Post-office, Upton-on-Severn. MR. BRENTON SYMONS INSPECTS and REPORTS on

ANY MINERAL PROPERTY. In all cases where property his report.—18, Hatton-garden, E.C.

MESSRS. ROBERTS AND CO., 87, LONDON WALL, E.C., have selected a LIST of DIVIDEND and PROGRESSIVE MINES, which they can strongly recommend. Also, Bank, Rallway, and other shares.

Commission, 14, per cent.

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MESSRS. ROBERTS AND CO.'S PRICE LIST AND STOCK AND SHARE REPORTER contains Reports of Mines, Notices of Meetings, Plans of Mining Districts (showing the position of progressive mines in reference to those returning large profits), Railway Meetings, Joint-Stock Companies Intelligence and Advice as to the Purchase and Sale of Stock.—87, London-wall, E.C.

PRACTICAL MINING and MECHANICAL ENGINEER, of A. 26 years' experience at home and foreign, and who speaks Spanish and Italian fluently, is DESIROUS of an ENGAGEMENT, at home or abroad; or would UNDER TAKE the SURVEY and INSPECTION of ANY MINING PROPERTY in any part of the world.—Address, "B.," MINING JOHNAL Office, 26, Fleet-street, London, E.C.

WANTED, an EXPERIENCED TIN SMELTER and ASSAYER.—Apply, stating terms, &c., and if willing to go abroad, to "A. B. E.," Mining Jouanal office, 26, Fleet-street, London, E.C.

SULPHATE OF BARYTES.—WANTED, a REGULAR SUPPLY, of time colour, and well ground.—Send sample and price to Mr. Gro. Darlington, Wrexham.

TO ENGINEERING SURVEYORS AND LAND AGENTS, &c.—WANTED.—The ADVERTISER, with good certificates from an engineering school, and brought up as a colliery and land surveyor, is DESIROUS of an ENGAGEMENT as JUNIOR ASSISTANT or otherwise. It a good draughtuman. Unexceptionable references.—Address, "Beta," No. 64, Gower-street, Bedford-square London.

TO CAPITALISTS.—The LESSEE of a FIRST-RATE COLLERY in NORTH WALES WANTS a PARTNER, with about £2000, A mining sugineer or practical colliery manager might have the management. A profit of 4s, per fon can be clearly shown on the coal relaced in the royalty, which is an extensive one.—Address, "Bryn," care of Mr. H. Greenwood, advertising agent, Liverpool.

TO INVENTORS AND PATENTEES.—A GENTLEMAN having an extensive connection with manufacturers, merchants, and others, would be GLAD to UNDERTAKE the SALE of INVENTIONS or PATENTED ARTICLES, on commission.—Apply to Mr. Rawes, gatent office, 14, Clare-street, Bristol.

N.B.—Continental and foreign agencies solicited.

N.B.—Continental and foreign agencies solicited.

TO COLLIERY PROPRIETORS.—TO BE SOLD,
BY PRIVATE CONTRACT, ONE 25 in. cylinder CONDENSING BEAM
ENGINE, 5 ft. stroke, with fly-wheel 14 ft. diameter, jack head and feed pump 6 ft.
diameter, winding drum for flat rope, 2 pump cranks for 5 ft. stroke, with TWO
wrought-from CYLINDRICOL BOILERS 24 ft. long, 6 ft. diameter, with steam plass
and fittings; the above in good order, and suitable for pumping and winding. Also,
ONE DIRECT ACTING PUMPING ENGINE, 45 in. cylinder, 9 ft. stroke, with metallic piston, double beat valves and connections; ONE wrought-from CYLINDRICAL
BOILER, 29 ft. long, 6 ft. diameter, in excellent working order,—To view and treat for
the same, apply to Mr. Hales, Broncoed Colliery, Mold, Flintshire.

GLAMORGANSHIRE.

COLLIERY FOR SALE.—The LOWER RESOLVEN
COLLIERY, situate in the VALE OF NEATH, GLAMORGANSHIRE, is
FOR SALE, BY PRIVATE TREATY. It is open by drift, and is on the Vale of Neath
Hallway, with broad and narrow gauge communication. Area, about 600 acres.
For terms and particulars, apply to T. M. SMITH, Eq., 1, Chapel-place, Duke-street,
Westiminster; or to Mr. Chas. Henry James, mineral surveyor, 35, Thomas-street,
Merthyr Tydvil.

ON SALE, a SET of PUMPING MACHINERY, recently in use, Consisting of a three-throw crank, slide rods, pendulums, bell cranks, and led yards (in three lifts) of 10 to 11 in pumps, with rams, &c., complete.—Apply to the BREDSURY COAL COMPART, Bredbury Colliery, near Stock port.

OR SALE, the RIGHT to the PATENT of a VALUABLE IMPROVEMENT in VALVES and BUCKETS for PUMPS, and in VALVES COCKS for OTHER USES.—For particulars, apply to Mr. W. T. RAWLE, patent mining agent, 39, Budge-street, Bristol.

WIRE ROPES FOR SALE, BY PRIVATE CONTRACT.—
ONE WIRE ROPE, 196 fms. long; EiGHT ditto, each 183 fms. long; and
TWO ditto, each 116 fms. long; all 44 in. circumference, weighing 22 lbs. per fm., and
made of the best charcoal iron wire, by Messrs. Glass, Elliott, and Co.—Applications to
be addressed Messrs. Counans, Grove, and Co., Clifton Suspension Bridge Works,
Bristol, where every information can be obtained.

HORIZONTAL ENGINES FOR SALE, at very low prices:
One 12 in. cylinder, 24 in. stroke; one 12 in. cylinder, 36 in. stroke; and to
14 in. cylinders, 24 in. stroke. All ready for delivery, and may be had with or withd
gy-wheels.—Apply to Mesers. E. PAGE and Co., Laurence Pountney-place Lauren
Pountney-hill Cannon-street E.C.

LTEN AND QUÆNANGEN MINING COMPANY (LIMITED).—Notice is hereby given, that the ANNUAL GENERAL MEET-ING of the shareholders will be HELD at the offices of the company, No. 2, New Broad-street, on WEDESBOAY, the 30th day of November inst., at Two c'clock precisely, for the purpose of receiving s report from the directors, and statement of accounts to slat March last. By order of the Board, EDWARD J. COLE, Sec. 2, New Broad-street, London, E.C., November 18, 1864.

BEARIZ TIN STREAMING COMPANY (LIMITED).—Notice is hereby given, that a SPECIAL GENERAL MEETING of the Beariz Tin Streaming Company (Limited) will be HELD at the office of the company, on TUESDAY, the 6th day of December next, at Two o'clock r.M., for the purpose of confirming the resolutions passed at the special general meeting of the company, held on the 15th inst. By order of the Directors, ALEX. STRACHAN, Sec. No. 17A, Sise-lane, Bucklersbury, London, November 23, 1864.

EAST WHEAL VOR COMPANY.—At a MEETING of the committee, on Nov. 11, 1804, the following resolutions were passed:—In consequence of the death of Mr. W. J. Dansford, application be made to his representatives for all books, leases, papers, &c.; that Mr. William Watson be appointed the purser of the mine; and that when the books, leases, papers, &c., are obtained the same be handed over to him.—Nov. 18, 1864. WILLIAM WATSON, Purser, Caistock, Cornwall.

HEAL GRYLLS COMPANY.—At a MEETING of the committee, on Nov. 11, 1864, the following resolutions were passed:—In consequence of the death of Mr. W. J. Dunsford, application be made to his representatives for all books, leases, papers, &c.; that when the books, &c., are obtained the committee hand the same over to the books. nd the same over to the purser.
Nov. 18, 1864. WILLIAM WATSON, Purser, Calstock, Cornwall.

GREAT WHEAL GRYLLS COMPANY.—At a MEETING of the committee, on Nov. 11, 1864, the following resolutions were passed:—In consequence of the death of Mr. W. J. Dunsford, application be made to his representatives for all books, leases, papers, &c.,; that when the books, &c., are obtained the committee hand the same over to the purser.

Nov. 18, 1864. WILLIAM WATSON, Purser, Calstock, Cornwall.

WHEAL ARTHUR COMPANY.—At a MEETING of the committee, on Nov. 11, 1864, the following resolutions were passed:—In consequence of the death of Mr. W. J. Dunsford, application be made to his representatives for ail books, leases, papers, &c.; that when the books, &c., are obtained the committee hand the same over to the purser.

Nov. 18, 1864. WILLIAM WATSON, Purser, Calstock, Cornwall.

CHEMICAL WORKS,

Containing Sulphuric Acid, Sait, Chlorine, Soda, Potash, Soap, Grease, &c., their Manufacture and Applications. Vol. I., Part III., 800 pages, 8vo., with 400 woodcuts, £1 13s.

Vol. I., Part IV., containing Aluminium, Sodiam, Soda, Potash, Artificial Stone, Phosphorus, Lucifer Matches, Hyposulphite of Soda, Borax, Mineral Waters, Saitpetre, Nitric Acid, Gungowder, Gun-Cotton, Fireworks, their Manufacture and Applications. 8vo., 600 pages, with woodcuts, £1 1s.

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OTTO'S MANUAL OF THE DETECTION OF POISONS BY MEDICO-CHEMICAL ANALYSIS. 12mo., 7s.
H. Ballière, Publisher, Regent-street, London.

On December 3 will appear, price 1s. 6d.

On December 3 will appear, price 1s. 6d.,

THE MINING AND SMELTING MAGAZINE,
No. 36, for December, which contains:—Lead Smelting on the Mendip Hills,
illustrated by six working drawings of the foreaces, and containing full particulars of
the cost of erecting the furnaces, and of the smelting of the debris: a Contemporary
flock Formation, or Sing Conglomerate, in Greece: Results of the Working of Rachetta's
Furnace for Smelting Iron and Lead, containing matter of great interest: Metallic Mines
Commission; Galibert's Respiratory Apparatus; Manufacture of Aluminium; the Sing
of Blast Furnaces: Cooling Fuddling Furnaces; Special Review of the Copper Ore Sales
for the month; Diagram, showing Fluctuations of the Scotch Ply-Iron Market; Bibliography, glving a précis of every noticeable work or memoir appearing in any language
on mining, metaliurgy, and chemical manufactures; Patents relating to Mining and
Metaliursy, English, Colonial, and Foreign, together with a complete local Review of
Mining, Quarrying, and Metaliurgy for the month; Metal Market; Reports from every
portion of the Continent, America, and the East; Prices Current of Metals; Metallic Ore
Markets; Tabular Abstract of Mining Accounts; Mining, Stock, and Share Markets,
English and American; full Statistics of every parcel of Metallic Oree Sold during the
month. London: Simpkin, Marshall, and Co., Stationers' Hall-court.

PRACTICAL MECHANICS' JOURNAL for December (Part 201, price Is.), with a plate engraving of Mr. Welld's Ingot Mould, and thirty wood engravings. Original Articles on the Supply of Weter to Cities, the Dutch System of Field Artillery, Decay in Wood Carvings, Ringed Structure in Ordanoc, Jacquard Apparatus, New Surveying Instrument, Artillery Experiments at Portsmouth.—Recent Patents: Parod, Steam Generators; Barber, Mowing Machines; Johnson, Sewing Machines, Meriewe of New Books, Correspondence, Mechanics' Library, Scientific Societies, Monthly Notes, Marine Memorands, Prices Current of Metals, Wood, &c., List of Patents, London; Longmans, Paterposier-row; Editor's Offices (Omecs for Patents). 47. Ling.

on : Longmans, Paternosier-row ; Editor's Offices (Offices for Patents), 47, Lin-nn-fields, and 106, Buchanan-street, Glasgow.

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THE NORWEGIAN TITANIC IRON COMPANY

The above company bag to CALL the ATENTION of IRONMASTERS and STEEL MANUFACTURERS to the IMPORTANT RESULTS that are to be OBTAINED by the USE of THEIR ORES in ADMIXTURE with ORDINARY IRON ORES.

It has been proved by the experience of ironmasters, extending over a considerable time, that even a small proportion of the Norwegian over has a most beneficial effect on the quality of the pig, and that it increases its strength considerably, the pig when peddied making iron of a very superior quality, and of a steely nature.

The above ores when mixed with the hematites make a pig specially adapted for the Beasemer process.

Bessemer process.

The great utility of these ores for fettling has been fully established at several of the large fromworks in the North of England; they are far more durable than build og, magnetic oxide of fron, red ore, calcined fronsions, or any other material that has hitherto been introduced. Besides the peculiar property the Norwegian ores have of resisting great heat and duxing action, they materially improve the quality of puddled bar. The directors having purchased extensive deposits of the ore in Norway, and constructed a railway to facilitate its regular supply, are now preparing to import it on a large scale.

structed a railway to facilitate its regular supply, as a new preparation of large scale.

The ore can be supplied with varying proportions of fron and titanium, some containing 54 per cent. of metallic iron, and 10 to 12 per cent. of metallic titanium, others containing less iron and more titanium.

The great feature in these ores is the entire freedom from the impurities found in ordinary iron ores—vix., sulphur, phosphorus, &c., and from their containing the metal titanium and vanadium, which are found in Swedish and Russian irons of the best brands they are peculiarly fitted for the manufacture of superior descriptions of iron and steel and for improving the quality of inferior brands.

Applications to be made at the office of the company, 4, Park-place, Leeds.

BEST CRYSTALLISED MANGANESE SPIEGEL IRON

AND ALL OTHER LIDES OF LEGISLA THOSE STATEMENT AND ALL OTHER LIDES OF GERMAN NATURAL STEEL IRON,
Produced out of the best sparry iron ores, for steel manufacturing works, as well as for puddling, forge, and foundry, fromworks, to refine common iron, delivered to all ports of Great Britain, and all information given by RUDOLPH BEUTEFUEHR, Iron Merchant and Mining Agent, SIECEN (Rhenials Pressia).
P.S.—Railway trains to and from the Rhine, via station Deutz (opposite Cologne).

Smithfield Club Cattle Show, 1864.

HENRY CLAYTON AND CO., of the ATLAS WORKS,
will EXHIBIT some SPECIMENS of their IMPROVED PATENT BRICK
MAKING MACHINES, COMBINING CRUSHING, PUGGING, and MOULDING.
BRICK and TILE PRESSING MACHINES.
COMBINED MOULDING and PRESSING MACHINE for FIRE-BRICKS.
TILE and PIPE MAKING MACHINES.
NEW PAN TILE MOULDING MACHINERY.
PORTABLE MORTAR MILLS.
PATENT PNEUMATIC SYSTEM for DRYING BRICKS and TILES.
Catalogues free by post, on application at their new manufactory, Woodfield-road,
Harrow-road, London, W. (late of Upper Park-place, Dorset-square).

TO THE SHAREHOLDERS OF THE NEW WHEAL MARTHA MINING COMPANY (LIMITED).

GENTLEMEN,—The office of secretary to this company having become vacant, owing to the sudden and lamented death of Mr. W. J. Dunsford, your directors beg to inform you that they have appointed Mr. Frederick R. A. Franklyn, of No. 7, Pinner's-hall, Great Winchester-street, to the vacant office, and that the registered office of the company will henceforth be at that address.

As the annual general meeting of the company will not be held until the early part of next year, your directors take this opportunity of informing you that everything in connection with the mine is proceeding in the most satisfactory manner, and by the time we have the pleasure of meeting you we have every confidence that the mine will be realising a clear profit, in addition to which there will be a considerable balance of unspent capital. We have, therefore, every reason to believe that the company will enter the Dividend List in the course of the ensuing year. From reports recently received from the manager, Capt. Rickard, the Board are able to state that the mine was never in a more promising and satisfactory condition.

By order of the Board, W. LINFORD, Chairman. London, November 18, 1864.

M. R. CHARLES BAWDEN, ST. DAY, SCORRIER, CORNWALL, having recently inspected several of the leading mines in Corawall, OFFERS ADVICE to CAPITALISTS about to embark in mining enterprise. C. Bawpas begs to remind his friends that the advice given tweive months since (vide Mining Journal) relative to Nanglies Mine, and three years since relative to New Scion, has been so far fully realised, and has been the means of saving hundreds of pounds to several clients, and from several recent inspections have selected two mines, which cannot fail ere three months to considerably advance in price, and recommends an early application.

of pounds to several clients, and from the considerably advance in price, and recommends an early application.

Of the Chiverton district, C. Bawden ventures to assert that Chiverton Moor will be one of the prizes of 1865, and that North Chiverton must soon follow suit.

EAST GREWILLE.—Extract from a report by Charles Bawden, dated May 10,1861:
—"In the 25 west they have passed over a very good looking gossan lode; for a considerable distance the matrix of the lode has every appearance of its being the result of a deposit of copper ore below, and although much has been said by 'nick-named' inspectors for and against the probable results of this lode in depth, I will here give my opinion, based on facts proved in other shallow mines. I am of opinion, from the richness of the gossan, accompanied as it is with black and a small portion of grey ore, that the small leader on the footwall will in depth become the main part of it; the ore now spems to be more concentrated, and forming, as is the case in all productive lodes, the main or ore bearing part, and increasing in size as it goes down; the remaining portior of the lode I call a beautiful capel, without which I should not have such a high opinion.'

The result has been proved in the 65 fm. level west by a course of ore.

The usual fee charged for inspection.

CAPT. C. WILLIAMS, TYN-Y-WERN, TALIESIN, via SHREWSBURY, has had upwards of 20 years' practical experience in mining, during which time he had the entire management of several English and Welsh mines. Residing in the centre of the CARDIGANSHIRE MINING DISTRICT, and in close proximity to those of MERIONETHSHIRE and MONTGOMERYSHIRE, he OFFERSHIS SERVICES to SURVEY and REPORT UPON ANY MINE.

CAPT. WILLIAMS is at all times in a position to FURNISH CAPITALISTS with RELIABLE INFORMATION respecting MINES in BISTRICTS in which they should embark or avoid.

Tyn-y-Wern, Tallesin, via Shrewsbury, November 23, 1864.

MINING OFFICES, MANCHESTER.

MESSRS. HARVEY AND CO., MINING ENGINEERS, CHESTER, are at all times in a position to deal in all the market Dividend and Progresive Mine shares, and also to advise on all mining matters, being practically acquainted with the business, and having a daily communication from the mining districts of Devou and Cornwall.

Messrs. Harvey and Co. publish a monthly "Mining Circular," containing a valuable summary of mining information. Forwarded gratis on application.

The Circular for November contains a report on Keily Bray, West Stray Park, and South Caradon Wheal Hooper.

BRITISH AND FOREIGN INVESTMENT.

BRITISH AND FOREIGN INVESTMENT,
and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., TRANSACTS EVERY DESCRIPTION of BUSINESS in the PURCHASE and SALE of
SHARRS in BANKS, CANALS, MINES, RAILWAYS, BRIDGES, INSURANCES,
and ALL OTHER DESCRIPTION of BUSINESS in the PURCHASE and SALE of
SHARRS in BANKS, CANALS, MINES, RAILWAYS, BRIDGES, INSURANCES,
and ALL OTHER DESCRIPTIONS of BRITISH and FOREIGN STOCK.

Mr. SPAND has for sale shares in English mines paying from 10 to 20 per cent. upon
the present price, in bi-monthly and quarterly dividends, as also a number of shares in
good progressive mines, some of which he with condidence specially recommends to the
piblic as sound investments.

Mr. SPAND gives every information as to position and prespects of all mining undertakings, upon application, either personally or by letter, and is enabled, through his long
experience, aided by his monthly visits to Cornwall, Devon, and Wales, to obtain the
most reliable information as to the numerous mines in those districts. He will, at all
times give the best advice as to investment in mines, and, if necessary, inspect them
himself; as in all cases he wishes to be guided by the intrinsic value of the property.
Upon the receipt of 5s. he will furnish a selected list of dividend and progressive companies.

panies.

Mr. Spargo has published the following works, viz.:—
Statistics and Observations upon the Mines of Cornwall, 1859, price 2z. 6d.

Ditto ditto litto less, price 5z. 6d.

Ditto ditto litto listo, price 5z. 6d.

Ditto ditto listo, price 5z.

Physical, Geological, and Parish Map of Cornwall. Scale, three miles to an inch.

Printed in three colours, showing distinctly the mining districts, the height of the hills, &c. Price 10s. 6d., on colot and rollers.

Geological maps of the various mining districts, showing the boundary line of each mine, with the lodes, cross-courses, and elvan courses by which it is traversed. Price 2s. 6d. each.

A Model, or Relief, map of Cornwall (6ft. 6 in. by 5 ft.), presenting the names of every

A Model, or Relief, map of Cornwall (6 ft. 6 in. by 5 ft.), presenting the names of every town and village, as size overy characteristic point of the country. Price £5 5s.
Dividends received, calls paid, and all orders promply negociated.
Commission 1½ per cent.
Mr. Spango has 20 years' experience of mining, ten of which he was engaged in pratical mining, and ten years he has transacted business in mining shares and stock,
224 and 225, Gresham House, Old Broad-street, City, E.C.
Bankers: Bank of Lendon, and the Metropolitan and Provincial Bank (Limited)

Bankers: Bank of London, and the Metropolitan and Provincial Bank (Limited' Bankers: Bank of London, and the Metropolitan and Provincial Bank (Limited' THE BANKING, MINING, AND JOINT-STOCK COMPANIES REVIEW, A JOURNAL OF COMMERCE, TRADE AND MANUFACTURE, SCIENCE AND THE ABTS.

Published every Wednesday. Sabscription, £1 is, annually. Price 6d. stamped.

A I L W A Y S A N D M I N E S,
Capitalists who seek safe and profitable investments, free from risk, should actonly upon the soundest inforcation. The market prices for the day are for the most part governed by the immediates supply and demand, and the operations of speculators, without reference to the bons fide merits of the property. Railways depend upon the traffic, expenditure, and capital accounts, the probabilities of aliance or competition with neighbouring companies, the creation of new shares, the state of the money market as affecting the remeal of debentures, and corner considerations founded on data to which those only can have access who give special attention to the subject. Mines afford a wider range for profithan any other public securities. The best are free from debt, have large reserves, and pay dividends bi-monthly varying. £15 to £25 per cent, per annum. Instances frequently occur of young mines rising in value 400 or boly per cent. But this class of security, more than any other, should be purchased only upon the most reliable information. The undersigned devote special attention to railways and mines, afford every information to capitalists, and effect purchases and as as upon the best possible terms. Thirty years experience in mining pursuits justifies us in offering our advice to the uninitiated in selecting mines for investment; we will, therefore, forward, upon receipt of Post-office order for 5s., the names of six dividend and six progressive companies that will, in our opinion, will repay capitalists for money employed.

Masses, TREDINNICK AND CO., STOCK and SHAREBROKERS, and DEALERS IN BRITISH MINING SHARES, 7s, LOMBARD STREET,

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devo

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL MARY EMMA MINING COMPANY.—By an order made by his Honour the Vice-Warden of the Stannaries in the above matter, dated the 19th day of November Inst., on the petition of William Escott, within the Stannaries of Devon, a creditor of the said company, it was ordered that the said WHEAL MARY EMMA MINING COMPANY should be WOUND-UP by this Court, under the provisions of the Companies Act, 1862. JOHN GLBERT CHILCOTT, Travo (Agent for Edward Chilcott, Tavistock, Solicitor for the Petitioner). Datad Truro, November 21, 1844.

In the Court of the Vice-Warden of the Stannaries.
Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the SOUTH WHEAL LEISURE MINING COMPANY.—By an order made by his lionour the Vice-Warden of the Stannaries in the above matter, dated the 21st day of November inst., on the petition of John Gatley, of Tresilian, in the parish of St. Erres, within the said Stannaries, a creditor of the said company, it was ordered that the said SOUTH WHEAL LEISURE MINING COMPANY should be WOUND-UP by this Court, under the provisions of the Companies Act, 1862.

Dated Truro, November 23, 1864. (Solicitors for the Petitioner).

ELSWICK COAL MINES, NEWCASTLE-UPON-TYF".

M. R. FRANK MERCER WILL SELL, BY AUCTION, November, 1864, at One o'clock precisely, ONE-EIGHTS HARRE, and ONE-HALF of one other ONE-EIGHTH SHARE, and ONE-HALF of one other ONE-EIGHTH SHARE, of the VALUABLE COAL MINES under the TOWNSHIP of ELSWICK, NEWCASTLE-UPON-TYNE, containing upwards of 800 acres, consisting of valuable seams of ceal yet unwrought, and of the Brock well seam, now in the course of working by Messrs. Cochrane, the lessees.

Printed particulars may be had of the Auctioneer, at his office, 28, Clayton-street, Newcastle-upon-Tyne; of Messrs. Dokviller, Lawrence, and Graham, solicitors, 6, New-equire, Lincoln's Inn, London, W.C.; Messrs. Lamb, Brocks, and Challes, collicitors, Basingstoke; and of Messrs. CLAYTON, solicitors, Newcastle-upon-Tyne.

MINING MATERIALS FOR SALE.

MESSRS. JOHN WARE AND SON WILL SELL,
BY AUCTION, at WHEAL NELSON MINE, near Camborne, on Saturday,
December 3, at Ten a.M., the undermentioned Engine and Materials, viz.:—
ONE 60 in. Engine, with BOILER.
8 10 in. pumps. MINING MATERIALS FOR SALE

10 in. pumps.
10 in. windbore.
10 in. windbore.
10 in. windbore.
10 in. doorpleee.
11 8 in. pumps.
12 in. pumps.
2 angle bobs.
7 am irons, bucket rods, chain, staples, bolts, screwing gear, 2 smiths' bellows, 2 angle bobs.
7 am irons, bucket rods, chain, staples, bolts, screwing gear, 2 smiths' bellows, 2 angle bobs.

TYWARNHAILE MINE. ENGINES AND MINE MATERIALS FOR SALE

THY AGNIFIALE MINE.

ENGINES AND MINE MATERIALS FOR SALE.

MESSRS. JOHN WARE AND SON WILL SELL,
next, the following MACHINERY and MATERIALS, viz.:—

ONE 70 in. ENGINE, with POUR BOILERS.
ONE 70 in. ENGINE, with ONE BOILERS.
ONE 28 in. ENGINE, with ONE BOILERS.
ONE 28 in. WINDING ENGINE, with ONE BOILER.
ONE 28 in. WINDING ENGINE, with ONE BOILER.
ONE 28 in. WINDING ENGINE, with ONE BOILER.
ONE 29 in. WINDING ENGINE, with ONE BOILER.
ONE 29 in. WINDING ENGINE, with ONE BOILER.
ONE 20 in. WINDING ENGINE, with ONE BOILER.
ONE 21 in. WINDING ENGINE, with ONE BOILER.
ONE 20 in. WINDING ENGINE

NORTH RIDING OF YORKSHIRE.—HINDERWELL, NEAR WHITBY.
TO IRONMASTERS AND OTHERS.
SALE OF VALUELE LEASEHOLD, MINERALS, PLANT, AND WORKS

NORTH RIDING OF YORKSHIRE.—HINDERWELL, NEAR WHITBY.

SALE OF VALUBLE LEASEHOLD, MINERALS, PLANT, AND WORKS,

MR. WILLIAM THWAITES WILL SELL BY AUCTION, at

the house of Mr. James Sutherland, the Station Hotel, Middlesboro', on Thursday, the 5th day of December next, at One o'clock for Two in the afternoon precisely, subject to such conditions as will be then and there produced, all that VALUABLE
LEASEHOLD and PERSONAL PROPERTY, lately belonging to, and known by the name of, "The ALBERT HON and CEMERT WORKS COMPANY (LIMITED)," situate at Hinderwell aforesald, near Whitby, in the North Riding of the county of York, comprising all and every the BANDS or BEDS, NODULES, MINES, VEINS, and QUARRIES of IRONSTONE and IRON ORE, FREESTONE, CEMENT STONE, and ALUM ROCK, tying and being within or under certain lands, grounds, and hereditaments of Richard Brown, Esq., of Hinderwell aforesald, and containing by admeasurement 6 a. On 2. 9P, nor thereabouts, now or late in the occupation of Mr. Thompson. And also all JET found in the ordinary and regular course of mining for, or working the said ironstone or iron ore, with the usual powers for the lessees, their successors and assigns, for working the said minerals for the unexpired term of 36 years and six months, from the 2d day of Febroary, 1863, less the last ten days of the said company, of and also all and every the Valuable LEASEHOLD PROPERTY of the said company, of and in all and every the Valuable LEASEHOLD PROPERTY of the said company, of and in all and every the Valuable LEASEHOLD PROPERTY of the said company, of and lad and being within or under certain lands, grounds, and hereditaments of William Ryder, of Staithes, in the said parish of Hinderwell aforesaid, grocer and draper, situate in the tomaship of Hinderwell aforesaid, containing by admeasurement of William Ryder, of Staithes, in the said parish of Hinderwell aforesaid, structure of the said company, at Allader and J.E. Shirik, Solicitors, MaCHINEY, GEARING, T., or thereabouts, now or late in the occupation o

BYERS GREEN COLLIERY AND FREEHOLD FIELDS FOR SALE.

M. R. CHARLES BROUGH, Auctioneer, WILL SELL, BY
AUCTION, at the County Hotel, in the city of Durham, on Tuesday, the 13th
Dec., 1864, at Twelve for One o'clock precisely, the important and well-known current
going collery, called BYERS GREEN COLLIERY, comprisins therein the LEASEHOLD COAL MINES of BYERS GREEN and OLD PARK, and the FREEHOLD
COAL MINES in a small tract of the north-eastern portion of the NEWFIELD ROYALTY, respectively situate in the parish of St. Andrew Auckland, in the county of
Durham, and containing together 1227 acres or thereabouts, and including therewith
FORTY-FIVE DOUBLE and THIRTY-EIGHT SINGLE HOUSES, occupied by
workmen; ONE HUNDRED AND THIRTY COKE OVENS, and all and singular
the COLLIERY FLANT of ENGINE HOUSES, ENGINES, MACHINERY, wagon
ways, live and dead stock, and other the property and effects belonging to the colliery
and premises, as the same are held and carried on by the present lessees.

And TWO FREEHOLD FIELDS or CLOSES of GRASS LAND, containing together 9 acres and 27 perches, situate in the township of Byers Green, adjoining the colliery, on which the coke oven plant may be conveniently extended.

The Byers Green coke has a first-class reputation for locomotive and iron production.

The owners (the West Hartlepool Harbour and Ballway Company) require that the
produce shall, as far as possible, be restricted in its transit for land sale or for abjument to their railway and harbour, the leading and shipping rates being placed upon
the most favoured terms for distance and tonnage.

The purchaser will have the option of paying a portion of the purchase money, and
the residue by instalments, with interest, at the rate of £5 per cent. per annum, on such
terms as may be agreed upon.

Particulars, containing the rents, terms, and provisions of the deeds, leases, and agreen. BYERS GREEN COLLIERY AND FREEHOLD FIELDS FOR SALE

the residue by instalments, with interest, at the rate of £5 per cont. per annum, on such terms as may be agreed upon.

Particulars, containing the rents, terms, and provisions of the deeds, leases, and agreements under which the colliery is held, and also conditions of sale (with plan annexed) may be had, and further information obtained, on application to Mr. Armstrade, Wingate Grange, Ferryhill; Mr. G. W. Southern, Chilton Hall, Ferryhill; or Mr. Tir-Lady, solicitor, Durham.—November 24, 1864. WHEAL ANNA, ST. HILARY, NEAR MARAZION, CORNWALL.

WHEAL ANNA, ST. HILARY, NEAR MARABION, CORNWALL.

TOR SALE, BY PRIVATE CONTRACT, the WHEAL ANNA
MINE, with the MATERIALS thereon, situate in the parish of St. Hilary, near
Marazion, Cornwall, adjoining the Great Wheal Prosper Mines.
The materials consist of a 70 in. cylinder PUMPING ENGINE, with THREE
BOILERS complete.
36 in. cylinder PUMPING ENGINE, with ONE BOILER.
32 in. DOUBLE STAMPING ENGINE, 9 ft. stroke, with ONE BOILER, and

o neads of stamps.

22 in. WINDING ENGINE, with BOILER and cage.
Capstans, shears, balance-bobs, capstan room, a large new

THE WINDING ENGINES, what some parties and suggested that the control of the cont in colletter, with the latest rules, offenies, see, smiths and inners tools, a few the same, apply to the agents, on the mine; and for further particular P. Bennerts, Falmouth; or to Messrs, John Tation and Sons, 6, Queen-streupper Thames-street, London.—Nov. 1, 1864.

TO CAPITALISTS.—ONE-THIRD of a SILVER-LEAD MINE TO BE DISPOSED OF, price £300. Two-thirds of the sum to be placed to the didt of the affair, which is required to put up machinery, £, by which handsome procan at once be realized. Full particulars will be given upon application, and the ne, which is in constant work, will be shown by the proprietor, Mr. Thos. J. Barnard.

MERIONETHSHIRE, NORTH WALES.

TO BE DISPOSED OF, a SLATE QUARRY PROPERTY, vein proved, and position commanding all advantages. Also, a VALUABLE GRANT, possessing a RICH SILVER-LEAD MINE, with other lodes, very favourable.—To treat for the same, apply to Mr. H. P. M. Owen, C.E., Peurhyndendraeth, vis

arvon.

7. Owen has OTHER MINES and QUARRIES TO DISPOSE OF. Also, begs
for his services to gentlemen in all inspections of native mineral, with practical
ris thereon. Immediate attention given.

NICHOLLS, WILLIAMS, AND CO., ENGINEERS,

NICHOLLS, WILLIAMS, AND CO., KNGINEERS, BEFFORD INDNWORKS, TAVISTOCK.

BEFFORD INDNWORKS, TAVISTOCK.

MANUFACTURERS OF STEAM ENGINES OF EVERY DESCRIPTION, made on the BEST and NEWEST PRINCIPILES. We beg more especially to call the attention of the public to the manufacture of our BOILERS, which have been tested by most of circlesting engineers. PUMP WORK CASTINGS OF EVERY DESCRIPTION, both of chase and Iron. HAMMERED IRON and HEAVY SHAFTS OF ANY SIZE.

CHAINS made of the best iron, and warranted. RALLWAY WORK OF EVERY DESCRIPTION.

ALL ORDERS FOR ABBOAD RECEIVE their BEST ATTENTION. NICROLLS, WILLIAMS, and Co. have had 20 years' experience in supplying machinery to foreign mines, and selecting experienced workness to erect the same, where required.

Messers. NICROLLS, WILLIAMS, and Co. have always a LARGE STOCK of SECOND. HAND MINE MATERIALS in stock, and at moderate prices.

PATENT FLEXIBLE TUBING,

ELLIS LEVER,

WEST GORTON WORKS, MANCHESTER.

TAVISTOCK IRONWORKS, AND STEEL ORDNANCE

COMPANY (LIMITED).

(LATE GILL AND CO.)

ENGINEERS, IRON AND BRASS FOUNDERS,

MANUFACTURERS OF

STEAM ENGINES, BOILERS, AND MACHINERY OF ALL KINDS.

CHAINS, SHOVELS, EDGE TOOLS, AND EVERY DESCRIPTION OF CAST
AND HAMMERED IRON FOR MINING, MANUFACTURING,

RAILWAY, OR AGRICULTURAL PURPOSES,

Machinery sent to all parts of the world.

Foreign mining companies supplied on liberal terms.

DEVERLEY IRON AND WAGON COMPANY (LIMITED).—
RAILWAY WAGON BUILDERS, MAKERS of the PATENT PRIZE CLOD
CRUSHERS and AGRICULTURAL IMPLEMENTS, MANUFACTURERS of PATENT WHEELS, &c., with wood or iron naves.
Coach builders, wheelwrights, conch proprietors, &c., should use these wheels, as they
are the best and cheapest in the world.
Gentlemen, farmers, and others applying direct to the works will be liberally treated.
Catalogues, prices, &c., can be obtained on application to the Works, Beverley, Yorkshire.

RAILWAY CARRIAGE COMPANY (LIMITED),

ESTABLISHED 1847.
OLDBURY WORKS, NEAR BIRMINGHAM.

MANUFACTURERS OF RAILWAY CARRIAGES and WAGONS, and EVERY
DESCRIPTION OF IRONWORK.

Passenger carriages and wagons built, either for cash or for payment over a

period of years.

RAILWAY WAGONS FOR HIRE.
CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAM.
LONDON OFFICES,—6, STOREY'S GATE, GREAT GEORGE STREET,
WESTMINSTER.

THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons for hire
capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping
purposes. Wagons in working order maintained by contract.

EDMUND FOWLER, Sec.

OFFICES,—3, NEWHALL STREET, BIRMINGHAM.

THE MIDLAND WAGON COMPANY
RAILWAY WAGONS.—This company having from SIX to SEVEN THOUSAND
COAL, COKE, IRONSTONE, and BALLAST WAGONS, have generally a number
TO LET for one or more years, including repairs, at Rugby, Peterbore', Shrewbarry,
Chester, Carnforth, Stoke-on-Trent, Staveley, Droitwich, Worcester, Gioncester, Reading, Hersford, Newport (Mon.), Cardiff, and Birmingham.
They also CONTRACT for WAGON REPAIRS at any of the above stations.
The company BUILD EVERY DESCRIPTION of RAILWAY WAGONS and
CARRIAGES for CASH, or by DEFERRED PAYMENTS, extending over three, five,
seven, or ten years.

HENRY BRIDGES, Sec.

even, or ten years. Midland Works, Birmingham.

Midland Works, Birmingham.

WANSEA COPPER ORE WHARVES.
TO IMPORTERS OF FOREIGN COPPER, LEAD, AND CALAMINE ORE.
Swanses, July 1, 1864.

GENTLEMEN,—We beg to inform you that, in consequence of the retirement of Messrs.
W. and J. M. Williams from the copper ore trade, which they have carried on here for so many years past, we have resolved to enter upon that business, and for which purpose we have secured most eligible wharves, on the west side of the North Float, where vessels drawing 20 ft. of water can got alongside at all times. These wharves are now covered in, the floors being made of concrete to prevent waste of the ore. A powerful steam crusher has lately been erected on the premises, and is now in working order.

The business we purpose carrying on is that of COPPER ORE WHARFINGERS, combined with metal and other general agencies, which will be managed by our Mr. Thomas Elford, who for 20 years has filled an important situation under Messrs. Williams, Foster, and Co., and for the last eight years has had the entire management of their large copper smelting works, and copper and metal rolling mills, in this locality, as well as the copper ore business of Messrs. W. and J. M. Williams, which we trust will be a sufficient guarantee to our friends that any business they may entrust to our care will be conducted with the most scrupulous attention to secure the best results for their interests.

In consequence of the large number of very extensive Copper smelting works concentrated in this immediate, ocality. this maykt a floring strater competition for ore than

their interests.

In consequence of thei arge number of very extensive Copper smelting works concentrated in this immediate ocality, this market affords greater competition for ore the perhaps any other in the world, there being now no less than sixteen distinct Compan competing for ores sold at the public ticketing, every two or three weeks. There is a good demand for lead and any one calamine ores, several large lead and appeter wor having been established in this district for some time past, and new ones are in components.

orection, Soliciting a share of your consignments of ore, regulus, and siab copper to this port, well as a share of any general business you may have to transact in this quarter, We remain, Gentlemen, your obedient servants, ELFORD, WILLIAMS, AND CO.

REFERENCES:—Mesers. Williams, Foster, and Co., London and Liverpool; Mesers filliams, Harvey, and Co., London and Liverpool; the Glamorganshire Banking Commy, Swansea; Mesers, Alex. Bell and Sons, No. 8, Finch-lane, London; Mons. Armand Lacombe, Madrid.

Gun Cotton Manufactory.

Gun Cotton Manufactory.

MESSRS. THOMAS PRENTICE AND CO.,
GREAT EASTERN CHEMICAL WORKS, STOWMARKET, SUFFOLK.
This manufactory has been established for the purpose of preparing GUN COTTON,
according to the Austrian process, and was opened on the 28th of January last, under
the inspection of Baron Lenk. Messrs. Thomas Prentice and Co. are now able
to SUPPLY GUN COTTON, in its most approved form, either for the purposes of engineering and mining, or for military and submarine explosion, and for the service of
artillery, as a substitute for gunpowder.

The advantages of Baron Lenk's GUN COTTON are the following:—
For PURPOSS of ARTILLERY.—The same initial velocity of the projectile can be obtained by a charge of gun cotton one-fourth of the weight of gunpowder. There is no
smoke from the explosion of gun cotton; it does not foul the gun, nor heat it to the injurious degree of gunpowder. There is much smaller recoil of the gun. The same initial
velocity of projectile is produced, with a shorter length of barrel. In projectiles of the
nature of explosive shells it breaks the shell more equally into much more numerous
pieces than gunpowder. When used in shells, one-third the weight of gun cotton produces double the explosive force of gunpowder.
For Civil ESGINERRING AND MINING.—In driving tunnels through hard rock a charge
of gun cotton of given size exerts double the explosive force of gunpowder, thus a smaller
number of holes is nocessary. It may be so used as, in its explosion, to reduce the rock
to much smaller pieces than ganpowder, and so facilitate its removal. As gan cotton
produces no smoke, the work can proceed much more rapidly, and with less injury to the
health of the miners. In working coal mines the advantages of bringing down much
larger quantities of material with a given charge, and the absence of smoke in the explosion, enable a much greater quantity of work to be done in a given time at a given
cost. The weight of gun cotton required to produce a given effect in mining is only
one-sixth p

gun cotton being one-sixth that of gunpowder. The peculiar localised action of gun cotton facilitates the destruction of bridges and palisades, and every obstacle. For submarine explosion, gun cotton has the advantage of a much wider range of destructive power than gunpowder. For the same purpose gun cotton, from its lightness, has the advantage of keeping aftest the water-tight case in which it is contained, while gunpowder sinks it to the bottom.

For NAVAL WARFARE.—In the batteries of ships, between decks, and in casemated forts, the absence of smoke facilitates continuous rapid fring. The absence of fouling and of beating are equally advantageous for naval as for military artillery.

GENERAL ADVANTAGES.—Time, damp, and exposure do not alter the qualities of the patent gun cotton. It has already been preserved 10 years without injury or decay, it can be transported through fire without danger, simply by being wetted, and when dried in the open air it becomes as good as before. In the case of a ship, or a fortress, or a city being on fire, this quality may be of the greatest value. It is much after than gunpowder, owing to its being manufactured in the shape of rope or yarn. It cannot escape from its package, or be spilled by accident. The paint gun cotton is entirely free from the danger of apontaneous combustion, and secures that degree of safety and certainty which, at the time of the original invention, the gun cotton of Schönbein did not possess. Messrs. Thomas Pranyrics and Co. are now in a position to contract with the owners of mines, engineers, contractors, and governments for gun cotton prepared in the various for asing it in mines, will be supplied with!

The great advantage of gun cotton make its use in practice very much cheaper than its comparative price would appear to show; in biasting rock, for example, the racidity and quantity of the work done, with a given expense of wages, &c., is largely in favour of gun cotton.

Messrs. Tuomas Pranyricz and Co. are also prepared to manufacture the gun c

CLAYTON, SHUTTLEWORTH, AND CO.,
ENGINEERS, ENGINEERS, MACHINERRS of PORTABLE and FIXED STEAM ENGINES, MACHINERY for PUMPING, HOISTING, GRINDING, SAWING, &c., ENGINES OF STEAM CULTUVATION, SELF MOVING ENGINES for COMMON BOADS and AGRICULTURAL PUMPOSES GENERALLY.

STAMP END WORKS, LINCOLN; and
78, LOMBARD STREET, LONDON.

LOWENGASSE No. 44, LANDSTRASTE, VIENNA, and GEGENUBER DEM BAHNHOF, PESTH.

Descriptive, illustrated, and priced catalogues free per post.

SPECIAL DRAWINGS WHEN REQUIRED.

THE BEST STEAM THRASHING MACHINERY MADE.

Prize Medal-International Exhibition, 1862.

ENOIR'S PATENT GAS POWER ENGINE .-The company are now publicly exhibiting this motive power daily, between the of Elevan and One, and Three.

C. W. WOOD, Manager and Sec. (pro tem). No. 40, Cranbourn-street, Leicester-square.

Swan Rope Works.

GARNOCK, BIBBY, AND CO.,
MANUFACTURERS OF FLAT and ROUND HEMF and IRON and STEEL WIRE
BOPES for MINING, RAILWAY, and SHIPPING PURPOSES.
MANULA RORE OF SUPERIOR QUALITY, FIFTY PER CENT. STRONGER,
will have per compared to the compared to t

First Class Silver Medal, Royal Polytechnic Society, Falmouth, 1864.

CREASE'S PNEUMATIC TUNNELLING ENGINE, in SUNEME SHAPES, DRIVING LEVELS, TUNNELLING ENGINE, IN SUNEME SHAPES, DRIVING LEVELS, TUNNELLING, &c., is guaranteed to sive through any rock of average hardness at a minimum rate of 1 fm. per diem, and sink shafts at the rate of 2 fms. in three days.

fig. Carase will undertake contracts for sinking shafts, driving levels, &c., at an engless reduction of time and great saving in cost.
Applications to be addressed (for the present) to the patentee, Mr. E. S. CREASE, fivistock, Devon.

Prize Medal Awarded Great Exhibition, 1851, and International Exhibition, 1862.

PATENT SAFETY FUZE WORKS, TUCKINGMILL CORNWALL.—We beg respectfully to inform the public that since the decease of the late Mr. Thomas Daver this firm has consisted of John Solomon Bickford Genote Suitti, Francis Pator, Simon Daver, and William Bickford Switti. It is requested that all letters may be addressed, and all cheques and drafts made payable to the suit of the suit o

TO CIVIL ENGINEERS, RAILWAY CONTRACTORS, MINE AGENTS, QUARRY PROPRIETORS, EXCAVATORS, AND OTHERS.

TO CIVIL ENGINEERS, RAILWAY CONTRACTORS, MINE AGENTS, QUARRY PROPRIETORS, EXCAVATORS, AND OTHERS.

PATENT SAFETY BLASTING POWDER COMPANY (LIMITED).

MANUFACTORY,—SOUTH DOWN, NEAR DAVENPORT.

The company is PREPARED to EXECUTE ORDERS for this POWDER to ANY EXTENT. The chief recommendations of this valuable invention consist in—

1.—ITS SAFETY.

2.—The SMALL AMOUNT of SMOKE, and COMPARATIVE FREEDOM FROM SOXIOUS GASES AFTER DISCHARGE.

3.—ITS CHEAPNESS.

1.—The Patent Safety Blasting Powder being Non-Explosive, unless confined by imping in a hole, none of the fearful and fatal accidents arising from all other kinds of powder employed for blasting can possibly attend its use, nor can explosion take place while the powder is deposited in store, or during transit, or in the operation of boring est the charge from holes which may miss fire from defective fase.

2.—in consequence of the small quantity of smoke produced by the blast, and the simont total absence of noxious gases, the men employed are enabled to resume their with without loss of time or injury to their health.

3. CHEAPNESS.—The Patent Safety Blasting Powder is cheaper and stronger than or-disary powder, the evidence of those who have adopted its use proving that a SAVING in bready EFFECTED of from TWENTY-FIVE to THIRTY FER CENT.

The company are also executing numerous orders, both for the home market and for fining countries, of the Patent Safety Blasting Powder, made up into waterproof cartifies. These are especially adapted for wet ground, for holes difficult to charge, and brail work where dispatch is of consequence.

Copies of testimonials, and any further information connected with the powder, may be evisited from Mr. Jos. HUTCHINSON, agent for Northumberland, Cumberland, and waterport to from Mr. Jos. HUTCHINSON, agent for Northumberland, Cumberland, and waterport to from the Secretary, at the manufactory.

Dated South Down, September 19, 1864.

THE UNITY PATENT SAFETY FUSE COMPANY SCORRIER, CORNWALL, SOLICIT ORDERS for the DIFFERENT KINDS of SAFETY FUSE which they are PREPARED to SUPPLY, of SUPERIOR QUALITY, and of ANY LENGTH.

C H A R L E S D A V E Y A N D C SAFETY FUSE MANUFACTURERS, ST. HELEN'S JUNCTION, LANCASHIRE.

NEW COMBINED TURBINE, WINDING, AND

NEW COMBINED TURBINE, WINDING, AND PUMPING MACHINERY,
MANUFACTURED by GEORGE LOW,
MILIGATE IRONWORKS, NEWARK-UPON-TRENT,
Who respectfully begs to bring the above to the notice of the mining public, as an exceedingly cheap and easy method of applying water-power for the above purposes.
The TURBINE, WINDING, and PUMPING MACHINERY are all fixed complete to eastering cast-iron bed plate, which can be placed in any situation without pit or excavation, and any height not exceeding 38 ft. from bottom of fail, the supply and succeeding placed in the second of the supply and succeeding all that is required to be connected to it, and can be brought in any discinon. This combined machine can be easily removed when necessary.

6. Low begs also to state that the TURBINE is the most efficient and the cheapest bathed of applying water-power for mining purposes.

MANUFACTURER OF WINDING, PUMPING, CRUSHING, STAMPING
MACHINERY, WINDING ENGINES, WATER WHEELS.

MPROVED TURBINE WATER WHEELS CONSTRUCTED either to WORK
VERTICALLY OF HORIZOSTALLY, and upon the MOST SCIENTIFIC and EFFECITVE PRINCIPLE.

6. Low begs to recommend a special class of turbine adapted for extreme high falls
600 to 500 ft.), and consuming small quantity of water. This turbine will work with
510 IRON AND COAL MASTERS, MINING AND QUARRY COMPANIES. &c.

TO IRON AND COAL MASTERS, MINING AND QUARRY COMPANIES, &c. IMPROVED BLACK VARNISH,
FOR PREVENTING IRON FROM RUST, AND WOOD FROM DECAY.

A BRILLIANT JET BLACK, SUPERIOR to PAINT in
APPEARANCE, dries in less time, contains preservative qualities of the best
description, and is economical in its use; one gallon, at 1s., is equal to 14 lbs. of paint,
which costs 4s. FOR COLLERN HEAD GRABHEN, RAILWAY WAGONS, BOILERS, CASTINGS,
CASAL BOATS, &c., it is especially adapted. In casks containing 10, 18, and 20 cwts.

TURPENTINE SUBSTITUTE.

GLOVEN and Co., have now on hand a really splendid painting sample of spirits of turpetits substitute, a pure crystal, not more voiatile than the genuine American turpenlist, and quite inoffensive to smell. Price, 2s. per gallon, in 30-gallon casks.

PETRO LEUM.

This oil gives a pure, white, soft, and brilliant light, vasily regulated, and portable.

This oil gives a pure, white, soft, and brilliant light, assily regulated, and portable, for works or public buildings, where gas is not desirable, the brilliancy and economy of the article are unequalled.

WASTENO GIRON OIL CISTERNS.

STENONG IRON OIL CISTERNS.

STENONG IRON OIL GISTERNS.

Stellable to leak, and which economise space in the stores. From 600 gallons, 48 diamy by 34 in height, pice £10 10s., down to 10 gallons, 15 diameter by 21 in height, stories, with every variety of size and price by were.

STENONG IRON BUCKETS:—

STENONG IRON BUCKETS:—

STENONG IRON BUCKETS:—

WAGON GREASE.

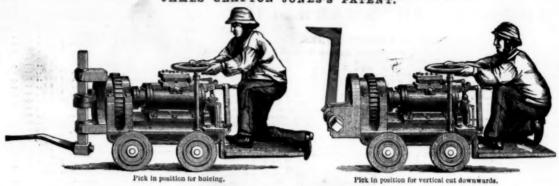
GLOVER AND CO., No. 40, MANESTY LANE, LIVERPOOL.

BASTIER'S PATENT CHAIN PUMP,
APPARATUS FOR RAISING WATER ECONOMICALLY, ESPECIALLY
PRICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, MARINE,

OFFICES, 12, GOWER STREET NORTH, LONDON.
London, March 21, 1859. Hours from Ten till Four. J. U. BASTIER C.E.

COAL CUTTING MACHINERY.

JAMES GRAFTON JONES'S PATENT.



Pick in position for vertical cut upwards

Messrs. Jones and Levick, proprietors of this patent, are prepared to supply these Machines, which are on an improved principle, and are constructed to work the coal at any angle from the horizontal to the vertical, thus rendering them capable of "holeing" at any angle, and of driving "headings." They are simple and substantial in construction, and are not likely to get out of order. They are already successfully employed in the Barnsley coal district, and are being introduced into the South Wales and other coal mining districts. They are also suitable for mining the argillaceous ironstones of the coal measures, as well as working other mines and quarries.

N.B.-Air Compressing Machinery will be supplied, or plans and specifications furnished.

Applications to be made to Messrs. Frederick Levick and Co., 4, Charlotte-row, Mansion House, London; or Messrs. Levick and Simpson, Blaina Ironworks, near Newport, Monmouthshire.

OAL CUTTING MACHINE X.—
The WEST ARDSLEY COMPANY having, by recently patented improvements, perfected their coal cutting machinery, worked by compressed air, are NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of their MACHINES. The results of twelve months' experience in the working of these machines, by the West Ardsley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL, to LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION of the MINE. All communications to be made to Messrs. First, Donisthorpe, and Bower, No. 8, Britannia-street, Leeds.

NOTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their patents are being infringed upon, hereby give notice that they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIES who may MAKE FOR SALE, or USE ANY MACHINERY in the construction of which any such INFRINGEMENT is MADE.

COAL CUTTING BY MACHINERY.



MESSES. RIDLEY AND CO. have, by recently PATENTED IMPROVEMENTS, COMPLETED their TRUKK COAL CUTTING MACHINE, WORKED by COMPRESSED AIR, and are NOW PREFARED to NEGOCIATE for the USE, and to SUPPLY MACHINES, which will be found to COMBINE SIMPLICITY of CONSTRUCTION with PORTABLILTY and ECONOMY in WORKING. By the use of these machines a CONSIDERABLE SAVING of COAL IS EFFECTED, and the COST of LABOUR MUCH REDUCED. Each machine will be guaranteed as to its capabilities, &c.
All applications to be made to Messry, RIDLEY and Co., No. 11, South-street, Finsbury London, E.C.; of Mr. PERCY BANKARY, agent, 9, Clement's-lane, E.C.

Q COLLIERY PROPRIETORS are CAUTIONED against PURCHASING of USING MACHINES, the construction of which will constitute an INFRINGEMENT of the ABOVE PATENT.

MESSRS. KNOWLES AND BUXTON, CHESTERFIELD MANUFACTURERS OF PATENT TUBULAR TUYERES.



The PATENT TUBULAR TUYERE possesses GREAT ADVANTAGES over the ORDINARY TUYERES, both for its DURABILITY and EASY WORKING. A current of cold water going direct to the nozzle prevents their destruction, however much they may be exposed to the fire.

We repair them at half the first cost, making them equal in size to new ones, all particularly.

THOMAS



TURTQN AND SON

MANUFACTURERS OF

CAST STEEL for PUNCHES, TAPS, and DIES, TURNING TOOLS, CHISELS, &c.
CAST STEEL PISTON RODS, CRANK PINS, CON-NECTING RODS, STRAIGHT and CRANK AXLES,

SHAFTS, and FORGINGS of EVERY DESCRIPTION. DOUGLE SHEAR STEEL,
BLISTER STEEL,
SPRING STEEL,
GERMAN STEEL,
GERMAN STEEL,
FILES MARKED
T. T U R T O N.
EDGE TOOLS MARKED
WM. GREAVES & SON Locomotive Engine, Railway Carriage and Wagon Springs and Buffers.

SHEAF WORKS AND SPRING WORKS, SHEFFIELD.

LONDON WARRINGSE,—35, QUEEN STREET, CANNON STREET, CITY, E.C.
where the largest stock in the world may be selected from.

M E S S R S. W. E A S S I E A N D C O.,

RAILWAY SAW MILLS, MOULDING SHOPS, &c., AND

GENERAL TIMBER CONVERTING YARDS,

HIGH ORCHARD, GLOUCESTER,

Are PREPARED to FURNISH QUOTATIONS for any description of WOOD FITTINGS for home or foreign RAILWAY STATIONS, BARRACKS, EXHIBITIONS,

DWELLINGS, WAREHOUSES, FACTORIES, STORES, GLASS HOUSES, &c.

They will also CONTRACT for WOODEN FITTINGS of ANY KIND in CON
NECTION with IRON BUILDINGS, &c.

The above would in all cases be consigned ready fitted, so as to ensure speedy re-erection.

Numerous drawings of works of the above nature, already executed, can be seen on

application, and references permitted to the engineers thereof.





The above Firm supply Barrows, Carts, Wagons, temporary Huts, permanent Shedding, and every description of Miners' and Contractors' Tools, at the very lowest prices. References can be given where many thousands of the above have been supplied to different parts of the world. Prices quoted on application. Delivered to any station, or home or foreign port.

International Exhibition, 1862—Prize Medal.



JAMES RUSSELL AND SONS (the original patentees and first makers of wrought-iron tubes), of the CROWN PATENT TUBE WORKS, WEDNESBURY, STAFFORDSHIKE, have been AWARDED as PRIZE MEDAL for the "good work" displayed in their wrought-iron tubes and fittings.

Warehouse, 81, Upper Ground-street, London, 8.

Prize Medals-International Exhibition, Class 1 and 2.

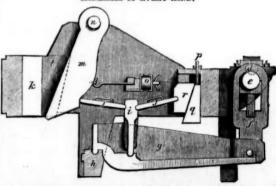


Prize Medals—International Exhibition, Class 1 and 2.

PATENT PLUMBAGO CRUCIBLES.—
The CRUCIBLES manufactured by the PATENT PLUMBAGO CRUCIBLE COMPANY are the ONLY KIND for which a MEDAL has been AWARDED, and are now used exclusively by the English, Australian, and Indian Mints; the French, Russian, and other Continental Mints; the Royal Arsenals of Woolwich, Brest, and Toulon, &c.; and have been adopted by most of the large ENGINEERS, BRASSFOUNDERS, and REFINERS in this country and abroad. The GREAT SUPERIORITY of these melting pots consists in their capability of melting on an average 40 pourings of the most difficult metals, and a still greater number of those of an ordinary character, some of them having actually reached the EXTRAORDINARY NUMBER 076 meltings. They are unaffected by change of temperature, never crucibles. In consequence of their great durability, the saving of which has proved to be about saven days; STEEL MELTING, which are found to save nearly 1/5 ton of fusl to every ton of steel fused; and for ZINC MELTING, lasting much longer than the ordinary iron pots, and asving the great loss which arises from mixture with fron.
For lists, testimonials, &c., apply to the Patent Plumbago Crucible Company, Batterses Works, London, S.W.
Pully described in the Mining Journal of July 5.

BLAKE'S PATENT STONE BREAKER, OR ORE CRUSHING MACHINE,

FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND.



It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chill, Brazil, and throughout the United States and England. The above section illustrates Blake's Stone Breaker, just as made the last five years,

Inited States and England.

The above section illustrates Blake's Stone Breaker, just as made the last two years, and is fully protected in every part by patents.

Extract from Specification:—A short but powerful vibration is imparted to one or both of the Jaws by any convenient arrangement, and combination of powerful levers, worked by a crank or eccentric on the main shaft.

LEGAL PROCEEDINGS will be taken at once against any person or persons found making, using, or vending any machine, the construction of which will constitute an infringement on the above patent. Read extracts of testimonials:—

Alkali Works, near Wednesbury.—I at first thought the outlay too much for so simple an article, but now think it money well spent.

William Hunt.

Welsh Gold Mining Company, Dolgelly.—The stone breaker does its work admirably, crushing the hardest stones and quartis.

Our 16 by 7 in. machine has broken 4 tons of hard winstone in 20 minutes, for fine road metal, free from dust.

Stone and Lime Merchants, Darlington.

**Exabless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons of 4d, net 100. Joint JANCKSTER.

Kirkless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons of limestone or ore per day (10 hours), at a saving of 4d. per ton. John Lancester. Occas, Ireland.—My crusher does its work most assisfactorily. It will break 10 tons of the hardest copper ore stone per hour. General Frémont's Mises, California.—The 15 by 7 in. machine effects a saving of the labour of about 30 men, or \$75 per day. The high estimation in which we hold your invention is shown by the fact that Mr. Park has just ordered a third machine for this estate.

Silas Williams

estate.
r circulars and testimonials, apply to—
H. R. MARSDEN, SOHO FOUNDRY,
MEADOW LANE, LEEDS.
Only maker in the United Kingdom.

THE NEWCASTLE CHRONICLE AND NORTHERN COUNTIES ADVERTISER. (ESTABLISHED 1764).
Offices, 42, Grgy-street, Newcastic-upon-Tyne; 50, Howard-street, North Shields; 195, High-street, Sunderland.

FOR GRATUITOUS CIRCULATION.

R. SMITH has just published a Free Edition of his valuable work, the PRIVATE MEDICAL FRIEND (118 pages), on the Self-Cure of Nervous Debility, Loss of Memory, Dinness of Sight, Lassitude, &c., resulting from the secret sins of youth. Copies will be sent post-free to any address on receipt of a directed envelope, enclosing two postage stamps.—Address, Dr. Shith, No. 8, Burton-crescent, Tavistock-square, London, W.C.

DR. WATSON, F.R.A.S. (of the Lock Hospital, and College of Physicians and Surgeon) on the Self Cure of Nervous and Physical Debility, Spermatorhoa, Decline of Manly Vigour, and Diseases of Indiacretion, with Means for Perfect Restoration, free for six stamps, by Dr. WATSON, I, South-crescent, Bedford-square, London. Consultation daily from Eleven till Two and Six till Eight. Sunday, Ten till Twolve.

Mr. Cation of sition of sole sition of oabt.

ADVICE Stocks made of color of sole sition of sition of sition of sole sition of sole sition of sition of sole sition of sition of

THE	MINING	SHARE	LIST	1 1
4000 Bedford United (cc) 1248 Bosenawell (tin, c 200 Botallack (tin, cc) 200 Botallack (tin, cl) 200 Botallack (tin, cl) 200 Carn Brae (copper) 2000 Clifford Amalgam 21200 Clifford Amalgam 21200 Derwent Mines (si 2120 Drake Walls (tin, cl) 2120 Bast Basset (cop, cl) 2128 East Pool (tin, cop) 200 East Darron (lead) 2120 Frank Mills (lead) 2120 Frank Mills (lead) 2120 Great Wheal Lovel 2200 Frank Mills (lead) 2120 Great Wheal Lovel 2200 Marse Valley (cop) 2200 Marke Valley (cop) 2300 Minera Boundary (lad) 2400 Marse Valley (cop) 250 Nanly Mines (lead) 2500 Minera Boundary (lad) 2500 Minera Boundary (lan) 2500 Minera Boundary	P., Cheshire [L.]. 10 0 ppper), Ravistock† 2 8 s. opper), Rt. Just. 6 15 0 ppper), Rt. Just. 6 15 0 ppper), Rt. Just. 6 15 0 ppper), Rt. Just. 6 15 0 pper), Rt. Just. 7 10 pper), Rt. Agnes. 18 10 pper), Rt. Agnes. 19 pper), Rt. Rt. Rt. Just. 7 10 pper), Rt. Rt. Rt. Just. 7 10 pper), Rt. Rt. Rt. Just. 8 10 pper), Rt. Rt. Rt. Rt. Just. 8 10 pper), Rt. Rt. Rt. Rt. Just. 8 10 pper), Rt. Rt. Rt. Rt. Just. 8 10	2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2		1844 4000 1844 4000 1844 5000 1845
240 Boscean (tin), St. 8000 Chiverton (lead), 1 2450 Cook's Kitchen (co.), 1 2450 Fowey Consols (co.) 2450 Gunnisiake (Clitter (co.), 1 2500 Cook (co.),	Just	614 6 614 18 1214 1114 1214 1114 1214 1114 1214 1114 1214 1114 1214 1114 1214 1114 1214 1114 1214 1114 121	7 12 0 0 4 0—July, 11 0 10 0 0 2 6—Feb. 11 0 17 6 0 2 6—Jun, 11 19 3 0 2 6—June, 11 7 18 6 0 5 0—Dec. 11 0 3 0 0 1 6—Mar, 11 18 18 1 0 7 6—Aug. 11 18 18 1 0 7 6—Aug. 11 0 0 2 0 5—Dec. 11 0 5 0 0 5 0—Dec. 11 0 0—June, 11 0 0 0 0 5 0—Dec. 11 10 0 2 0 0—Mar, 11 10 0 2 0 0—Mar, 11 11 0 0 2 0 0—Mar, 11 11 13 0 2 0 0—June, 11 11 13 0 3 0 0—June, 11 15 10 0 5 0 0—Feb. 11 16 6 0 1 0 0—May, 11 0 19 0 0 3 0—May, 11 0 0—0 19 0 0 3 0—May, 11 0 0—0 19 0 0 3 0—0 19	2000 j 5144 j 5000 j 5000 j 5000 j 5000 j 5000 j 5000 j 5000 j 6000 j
18000 Linares (Id.), Poz 10000 Lusitanian (of Fo 9275 Now Wildberg (so 10000 Pontgibaud (sil 97500 Port Phillip (gold 11000 8t. John del Rey 43174 Unit. Mexican (sil 10000 Vancouver (coal) 25000 Victoria (London) 20000 West Canada Mir 45000 Yudanamutana (c), S. Australia [S.E.] 7 7 6), South Australia. 8 0 0, 0, 1 (sliver) [L.] 5 0 0, 1 og [L. £10] [S.E.] 7 0 0, 0 og [R. £10] [S.E.] 7 0 0, 0 og [R. £10] [S.E.] 10 12 6 Calcutta [L.] 10 9 0, 0 og [R. £1] [S.E.] 10 9 0, 0, Nova Scotia [S.E.] 20 0 0, 0, Nova Scotia [S.E.] 20 0 0, 0 andno, Spain [S.E.] 1 0 0, 0 andno, Spain [S.E.] 2 0 0, 1 og [R. £1] [S.E.] 1 0, 0 og [R. £1] [S.E.] 1 0 0	68	0 1 0 0 1 0—Dec. 11 20 0 0 5 0 0—Sept. 1 0 15 0 0 5 0—Sept. 1 0 15 0 0 5 0—Sept. 1 0 15 0 0 5 0—Sept. 1 1 0 0 0 0 8 0—July, 11 0 0 0 0 0 8 0—July, 11 0 0 0 0 0 2 0—Aug. 1 74 per cent. — Yearly 11 10 0 1 0 0—June, 1 11 10 0 1 0 0—June, 1 10 12 0 0 1 0—June, 1 10 12 0 0 1 0—June, 1 10 12 0 0 1 0—July, 1 10 10 0 0 1 0—Aug. 1 1 7 3 0 7 3—Jan. 1 1 7 3 0 7 3—Jan. 1 1 7 3 0 7 3—Jan. 1 1 1 9 0 0 1 0—July, 1 2 19 0 0 5 0—Sept. 1 0 10 0 0 5 0—Sept. 1 0 12 0 0 5 0—Sept. 1 0 12 0 0 5 0—Sept. 1 0 12 0 0 5 0—June, 1 0 12 0 0 5 0—June, 1	8430 3 8400 1 884 5000 1 885 5000
1	NON-DIVIDEND	FOREIGN MIN	ES.	6400 6000 6514 6400 400
35000 Alamillos (lead), 100000 Anglo-Brazilian (20000 Beariz Tin Streau 35000 Capula (silver), 2 17000 Central Italian (c 20000 Coplapo Smelting 75000 Dun Mountain (c 50000 East del Rey (go) 6000 East del Rey (go) 6000 East del Rey (go) 6000 Frontino and Boil 50000 Frontino and Boil 50000 Frontino and Boil 50000 Great Northern (c 4000 Hindostan (copper 4000 Hope Silver Lead 10000 Karbita Colliery 30000 Lagunazo (sulphi 100000 Montes Aureos (g 50000 Nova Scotia (lam 10000 Pachuca Silver 3 60000 Pachuca Silver 3 600000 Pachuca Silver 3 60000 Pachu	Spain] L. £2]. (gold) [L. £1] [S.E.] ming Company [L. £1] Mexico [L. £2] [S.E.] sopper) [7000 £2 paid] g [L.], Chili opper), New Zealand [L.][S. dian Mining Company [L.] , West Australia [L.] via (gold), New Granada [L.] r), Bengai [L. £5] and Copper Mining; (C. [L.])	1 0 0 0 5 0 0 17 6 1 0 0 10 0 0 E.] 1 0 0 2 0 0 2 0 0 2 0 0 2 1 0 0 2 0 0 2 1 0 0 3	13% .1½ 13% .8ept. 1 36	1864 6400 1863 1024 1863 6000 1864 5090 1864 5090 1864 1024 1864 1024 1864 1024 1864 1024 1864 1024 1864 1024 1865 1024 1865 1024 1866 1026 1866

PROGRESSIV		. 700	No. Pool (tin & cop.), Illogan . N. Roskear(cop.), Camborne	34 15 0 1854 17 to *** dill. 184	-
very (siilead), Merlo. 4 Crib (lead) L. £5] 4	10 0 —	2 034/	North Rosewarne (copper) No. Shepherd (lead), Newlyn. N. Wh. Basset (cop., tin)[S.E.] North Wh. Crofty (cop.) [S.E.] N. Wh. Robert, Samp. Soiney	1 00. 17 18 Nov. 1864 2 0 0. 5 214 224 Jan. 1864	
(tin) [L.]	0 0 — Fully pai	d. 5610 4 6144	North Wh. Crofty(cop.) [S.E.] N. Wh. Robert, Samp. Spiney N. Wh. Seton, Camborne [L.£25]	2 10 6. 234. 256 3 .Aug. 1884 3 12 11	
(lead)	10 0 — Fully pai	d. 12288	Okel Tor (cop.), Calstock Pedn-an-drea (tin), Bedruth.	2 3 10 . —	
Hill (tin) Plympton 1 w(ld.), Minsteriey, Salop 1 rd Hall (lead), Flint 30	0 0 Fully pa	d. 5000	Pendeen Cons. (cop.), St. Just Penhalis (tin), St. Agnes Penhaliow Moor (sliver-lead).	4 9 6. 314. 3 314 Aug. 1884 2 16 0	435
wiog (lead), Flint 9	7 6 Jane, 18	6000	Penrait (sil. td.), Merion.[L.]	2 7 0 Nov. 1864	
& Basset, (cp.) Redruth 4 nack (tin), Wendron 25 rne Consols (copper) 18	11 6 —Feb. 18 3 6 —Aug. 18 10 0 —Feb. 18	12800 14 8000	Prince of Wales (tin), Walstock Princess of Wales (tin), Calstock Princess of Wales (tin), Sancreed Prosper Uni. (tin, cp.), St. Hilary	1 0 0 5s 16 1/4 Sept. 1864	
ne Vean & Wh. Francis 10 anConsolid.(gd.)[L.£2] 1	8 4 2%2% 2%Oct. 18 0 0 — Ang. 18	10186	Redmoor(cop.,tin), Callington	0 14 6 — April, 1863	
ornwall(cop.),[L.£2 10s.] 1 h& Phonix Cons.[L.£1] 0 n Cons. (cop.),St.Cleer 29	10 0	6000	Rhafna (lead), Carmart. [L. £1] Restriggian (iron), St. Wem Roborough Down (cop.) [L. £3]	0 10 0 —	
oe (tin and cop.), Zennor 1 amborne (cop.), Cambn. 1	0 0 Jan. 18	3996	Rosewarne Consols (copper)	4 11 6 — Peo. 1864	_
rth (tin), St. Just 4 rt[3200 £2½ pd., 16800 £ rard, Ireland [L.] 1	10 0 — June, 18	704	Roskear (copper), Camborne Roskearnowth (cop.), Camborne Scorrier Con. (tin,cp.), St. Agnes	1 10 0 ***COUPL, 1862	M
leen (ld.), Fiint [L. 40] 2	10 0 —	d. 800 84 20000	Scorrier Con. (tin,cp.),St.Agnes Segienlas, Montgomery [L. £8] Snaefell (lead) Isle of Man [L.] Stiver Moun. (lead) [L.]	5 15 0	Mr tion o
Minera (lead) [L.£5] 2	14 0 Nov. 18	90 409H	0 Silver Moun. (lead) [L.] 0 Sil. Vein, St. Winnow [15000.£1 p 5 Sithney Wheal Metal (tin)	3 10 0 2 Jan. 1864	sition Ho
Hill (tin), St. Stephen's 0 ad (iron), [L. £30] 5	10 0	51:	0 Sortridge Cons. (cop.) [S.E.]. 0 S. Alfred Cons. (cop.), Phillack 2 South Basset (cop.), Gwennap	0 12 6 — June, 1884 16 10 8 — May, 1864	ADV stock
k Wentworth (tin, cp.) 33 ce Wood (tin) [L. £5]. 3 ra & Bond[L.][5300£1pd.,1	0 0 Aug. 18	10 600	South Bryn Gwiog (lead)	7 0 0 — July, 1864	of doc
ree (cop., sulph.) [L.] 1	0 0 19s 19s. 6d Fully pai	d. 6000	South Carn Brea (cop.)	2 17 0 13/ 13/ 13/ 13/ 1864	FO. 330.;
copper), Camborne 25 and Wh. Abraham [L.] 2 (cop.), Tavistock 2	7 0 —	6000	South Darren (1d.) [L. £3%]	3 4 6 1% 1% 1% Oct. 1860 2 13 0 Aug. 1862	22 per
(cop.), Tavistock 2 Consols (cop.), Crowan 5 m (lead), Llanidloes. 1 (cop., tin), St. Austell 4	11 0 Dec. 18	4 KAGG	0 S. Foxdale(1d.) Lof Man [L. £5] 0 South Gorland (cop.), St. Day 0 South Grylls (copper) [L. £10]	3 0 0 1962	At Chive 15 Br
nlog (silld.), [L. £5] 2 ad), North Stafford 1	0 0 — May, 18	102	S. Herodsfoot (lead) Liskeard.	23 10 0 April, 1884	M
(lead) [L.], Cardigan 6 ong (tin), Gulval 44 rnog (gold) [L. £1] 0	8 0 —	3 400	South Lovell (tin), Wendron 8. Minera (lead) [L. £5%] 8 South Pant-y-Gof (lead)	4 0 0 13/4 2 Aug. 1864	Jan £181
ouk (lead) [L. £20] 17	7 6 — Aug. 18	84 832	5 So. Phonix (cop.) Linkin.	0 5 0 34 Oct. 186	Crebon 35s.; Seton,
e Hill (tin), Plympton 0 mbrian (gold) [L. £1]. 0 m Brea (cop.) Redruth 3	15 0 Feb. 18	84 93 83 40	4 S. Tresavean (cop.), St. Day 7 So. Wh. Crofty (cop.), Illogan 2 0 So. Wh. Seton(cop.), Camborne 4	00 6 4 1214 Dec. 186	Busy, 20 Not
u(gold), Merio.[L.£1] 0 von Gt. Consols (cop.) 1	6 0 — Nov. 18	54 79 54 1000	0 So, Wh. Seton (cop.), Camborne '4 Spearne Cons (tin), St. Just. 0 St. Cathbert Lead Smelt. [L.] 0 St. David's (gold) [L. £2 10s.] 0 St. Ives Wheal Alien (tin). 1 0 St. Just Untd. (tin) [L. ½4]. 0 St. Just Consols (tin) [L. ±4].	5 0 0	7s. 6d.
outh (sld.), Kenwyn 5	9 0. 636. 536 . Nov. 18	4 900	St. Ives Wheal Allen (tin) 1 0 St. Just Untd. (tin) [L. 2%].	5 0 0 — Nov. 186 2 0 0 — Dec. 186	M
ork (tin), Breage [L£5] 3 islake& S. Bedfd.(cop.) 7 is (silld.), Cardinham 2	19 6 % Sept. 18	4 99	Stray Park (cop., tin) [S.E.].	14 15 6 19 16 18 **Jan. 186	TRAN may re Mr.
te (silid.), Cardinham 2 tey (lead) [L. £3] 2 aret (tin), Uny Lelant 21 rro(tin)[L.£1][4000£1pd.	0 0 Aug. 18	3500	Tolearna (cop.), Camborne	2 2 0 Sept. 186	Clifford Ives C
dence (tin), Uny Lel. 4 nefell (lead) [L. £3] 1	9 8 Sept. 18	109	Trengrom (tin), Uny Lelant.	7 8 8 —Jan. 1868	deen C
on (cop.), Camborne 0 gus (copper), Redruth 90 erby (cop.), Redruth. 10	0 0 = Nov. 18	4 310	Tressiven and Trethurrap Tressilyn and Scaddick Cons. Trevenen and Tremenheere .	1 12 6 —	Chiver sols, 60 Hawki
eal Abraham (copper). 0 1 Agar (cop.),St.Cleer 11	17 0 Sept. 18	4004	3 Treweatha (silid.), Menhen. 3 Treworlis (tin), Wendron 3 Trimley Hall [1250 £1 pd., 125	D 13 0	Carado £3%; I ref
al Ellen(cop.)St. Agnes 0 heal Grylls (tin, cop.) 2 Russell, Tavis. [S.E.]. 9	2 6 — July, 18	4 6400	Trumpet Unit. (tin), wanted	0 17 0 Jan. 186	Offic
teal Vor (tin and cop.) 5 (lead), [L. £2] 1 (nd. (tin), Cardingham 0	0 0 2%1% 2% 0 0	2000	Tywarnhaile (copper)	5 17 6 — July, 186 0 16 6 6a 4a. 6a Oct. 186 1 0 1 — Fully page	M
e Con. (sil.), Endellion 0 ill Wood Cons., Buckl. 1	12 6	4000	Wentworth Consols (lead)	3 0 0 9 716 816 Oot. 186	Bedf Bulle East
Untd. (tin), Wendron 4 (copper), Tavistock 2 n. Co. for Irel. (cop.) 4	11 6Oct. 18	40000	Weish Gold, Dolgelly [L.] West Beam (tin) [L.] West Clogau (gold), Merioneth	1 0 0 — Fully paid	East East
rCaradonCon.(cp.)[L.] 1 in (cop., tin), Crowan 0 (silver-lead) 12	0 0 — Fully pai 5 0 — Oct. 186 10 0 —	1 1000	West Cwm Ernn (lend) [L]	2 0 0	East East And is
ill (lead), Flintshire 1 na (copper), St. Cleer. 4	9 0 3 2 3 Sept. 186	4 10000	W. Grylls (tin), Perranuthnoe	0 4 0 —Nov. 180	East Lady
& St. Aub.(cp.) [S.E.] 63 rigan (cop.), Redruth. 6	10 0 6 5 6Nov. 186 11 6 Sept. 186	19000	West Nanty (lead) [L.]	2 17 0 —Aug. 18	New
aradon (cop.), St. Ive. 3	14 0 —	1056	West Sharp Tor(cp.) Killaton. 18 West Stray Park (cop.), Camb.	9 11 6 —	Offering
orth Downs (copper). 4 llack (silld., blende) 2	6 6 — Sept. 186	5481	West Trevelyan (tin, copper)	92 5 0 30 25 30 Ang. 16	M
regune Consols (cop.). 0 'est Chiverton (lead) 1	5 0 — June, 186	8000	West Wheal Jane (tin, &c.) West Wh. Kitty(tin), St. Agnes W. Wh. Martha (cp. &sil.) [L. £2]	1 5 0 July, 18	E
heal Baddern (tin) 6 Busy (cop., tin), Ken. 13 Grylls (tin, copper) 1	U U	8 6000	West Wheal Vor (tin), Heiston Wheal Agar(copper), Illogan	5 11 0 — 1% 2 Mar. 18 5 11 0 — Sapt. 18	£2 10s. atrongi
Metal, Breage[L. £2] 1 Stapeley (lead), [L.] 10	0 0 — .: .:July, 186	6000	Wheal Buller, Redruth [S.E.]	2 26 — July, 18	3, Hatt
onsols (tin)	0 0 Nov. 186	1000	Wheat Curtis (cop.), Crowsin	1 14 6 21% 1%Nov. 18	Jo
agie (copper) 1 d (ld.) Durham[L.£1] 0	7 3 — Feb. 184 5 0 334314 334 Nov. 186 6 6 — Sept. 186	4 4096	Wh. Edward (cop.), Calstock.	3 5 0 Nov. 18	C E
d.)., Cardigan [L. £5] 4 oor (tin,cop.) Calstock 3	6 0 — July, 186 6 0 — Feb. 186 0 0 — Nov. 186	4 4000	Who Emma (cp) Buckrastieigh Wheal Falmouth & Sperries.	7 0 0 Oct. 18	atreet,
tin and copper) 0	10 6 4% 4 4%Dec. 186	3 6190	Wh. Grylls (tin), Perranuth.	4 11 6 34 Sept. 18	W
ray (ld.), Callington. 5 k (lead), Portinscale. 5 y (lead) 25	2 6 13s 1/4 1/8June, 186 6 —Mar. 186Feb. 186	3648	Wheal Hearle (tin), St. Just.	3 5 0 — Aug. 18	SPECL
rtha (cop.) [S.E.] 3 (tin), [L. £2] 1	2 6 15s % 1/2Oct. 186 18 0 — Nov. 186 6 4 — Feb. 186	4 4800	Wheal Ida (Sillead), St. 146. Wh. Ludcott and Wrey (lead)	0 10 0 —	Prov East
ons. (tin), Uny Lelant 35 Vardre (coal), [L.£5] 4	0 0 Mar. 186	1 1000	Wheal Margary (tin, copper) 2 Wh. Mary Hutchings (Plymp.) Wh. Norris (tin, cp.), St. Cleer	3 17 7 Nov. 16	Who
Ke (lead), Flint D	0 0 —Oct. 186 11 0 —Jan. 186 2 0 —April, 186	1024	Wheal Par (tin), St. Biazey	3 3 6	East Whe Mine
(lead), Flint	16June, 186		Wh. Pollard (copper) Wheal Polmear (copper) Wh. Prosper (cp.,tin), Breage 1 Wh. Prudence St. Ag. [L. £1]		Nangite and Wi
form (lead) 3	9 6 Nov. 186	240	Wh. Reeth (tin), Uny Delant	6 10 0	M
(tin, copper), Kea 19 and Penrhiw [L.] 4 (lend) [L. £1] 0		4 2040) Wheal Rose (copper), Scotter.) Wheal Sarah (tin), Lanivet.) Wheal Sidney (tin), Plympton) Wh. Sithney & Carameal Uni. 1) Wheal Sparnon (copper)	0 19 0	Mr. vertise
inera (lead), [L. £20] 6 Iago (ld.), Merioneth 8 neord (silld.) [L. £3] 1	0 0		Wheal Sparnen (copper) Wh. Trannack (cop.), Sithney Wheal Union (cop.), Redruth Wh.Unity(cop.,tin), Gwinear 1	1 0 0 Nov. 1	bought
rnish [8000 £1 paid, 4000 Hill (id.), St. Stephen 3 at Birch Tor (tin) 0	13 6 — Nov. 186	4 6000	Wh. Unity(cop.,tin), Gwinear 1 Wh. Uny (tin,cop.), Redruth	9 12 0 3214 914bept.	214.
Russell (cop.), Tavistk. 0 Hearth (lead), Dufton 0	8 6 — Nov. 18	4 1024 3 994	Wh. Vyvyan (cop.), Constantine Worvan Downs (tin), Lelant.	9 15 0 —	CIE
mbroke (tin and cop.), 0	9 0 — May, 18	3 309	Yarner (copper), Devon	5 10 6.s — ss sample 4	Excha
caradon (cop.), St. Cleer 0 caleigh (cop.), Redruth 3 evenen (tin), Wendron 7 vnards Min. Co., Down 50	16 6 —	3	WIREHT	ANEOUS	Birch Chiffor
engron (un), wendron .	0 000 - 00 000 000000000000000000000000		MISCELL OO Anglo-Mexican Mint	0 0 0 19181/191/4	Chives East H East O
h. Grylls (tin and cop.) 2	1 6 —May, 186 2 6 —June, 186	3 2000	O City Offices [II. 2000]	7 10 0 1417 14141814	East V

Oct. 1864	MISCELLANEOUS.
Jan. 1863 May, 1863	20000 Anglo-Mexican Mint 10 0 0 1918¼19¼ 20000 City Offices [L. £50] 7 10 0 2½5½ 5¾%
June, 1864	10000 Discount Corporato, L. 21001 1/ 10 V 1274
Fully paid.	
,.Oct. 1864	10000 California Iron (I. 4501 10 0 0 6 2 5
May, 1864	
Sept. 1864	90000 Ganaral Steam Navigation 19 U U 20
	20000 Humber Ironworks [L. £50] 8 0 0
Oet. 1863	100000 ImperialMercan, Cred. [L. £50] 5 0 0 88% 8%
Jan. 1864	
Nov. 1864	90000 Joint-Stock Discount Later 1 10 000 7800
Aug. 1864	50000 Lond. & Glasg. Engl. [L. £50] 10 0 0
Aug. 1864	40000 Millwall I conworks 5 0 0. 414. 4 414
Aug. 1864	
July, 1863	
Ang. 1864	30000 Nova Scotta Gold & Land [1.]
Sept. 1864	20000 Khymnay Iron (10000 250 pd., 10000 210 pd.).
Aug. 1864	5000 Silver sindiards. Was La. 200710 000 91/ 91/ 4
May, 1864	40000 Smith, Knight, &Co. [L. £50] 5 0 0 314 314
The Late	The same with IT. I amounted have been incorporated

s Those mines with [S.E.] appended have been admitted on the Stock Exchange. Those mines with [L.] appended have been included Limited Liability.

** Our object being to make the Share List correct, we carnestly call upon all who have the power, to aid us, by forwarding any alterations of our tion which may, from time to time, come under their notice. To shareholders, as well as those officially connected with the mines, we appear information. ** Reports from mines—in fact, mining intelligence of every description, forwarded to our offices, will most ready attention.

London: Printed by Richard Middleron, and published by Henry Prolish (the proprietors), at their office, No. 26, Plear Street, E.C., where all munications are requested to be addressed, w. November 26, 1864.